

FIG. 1



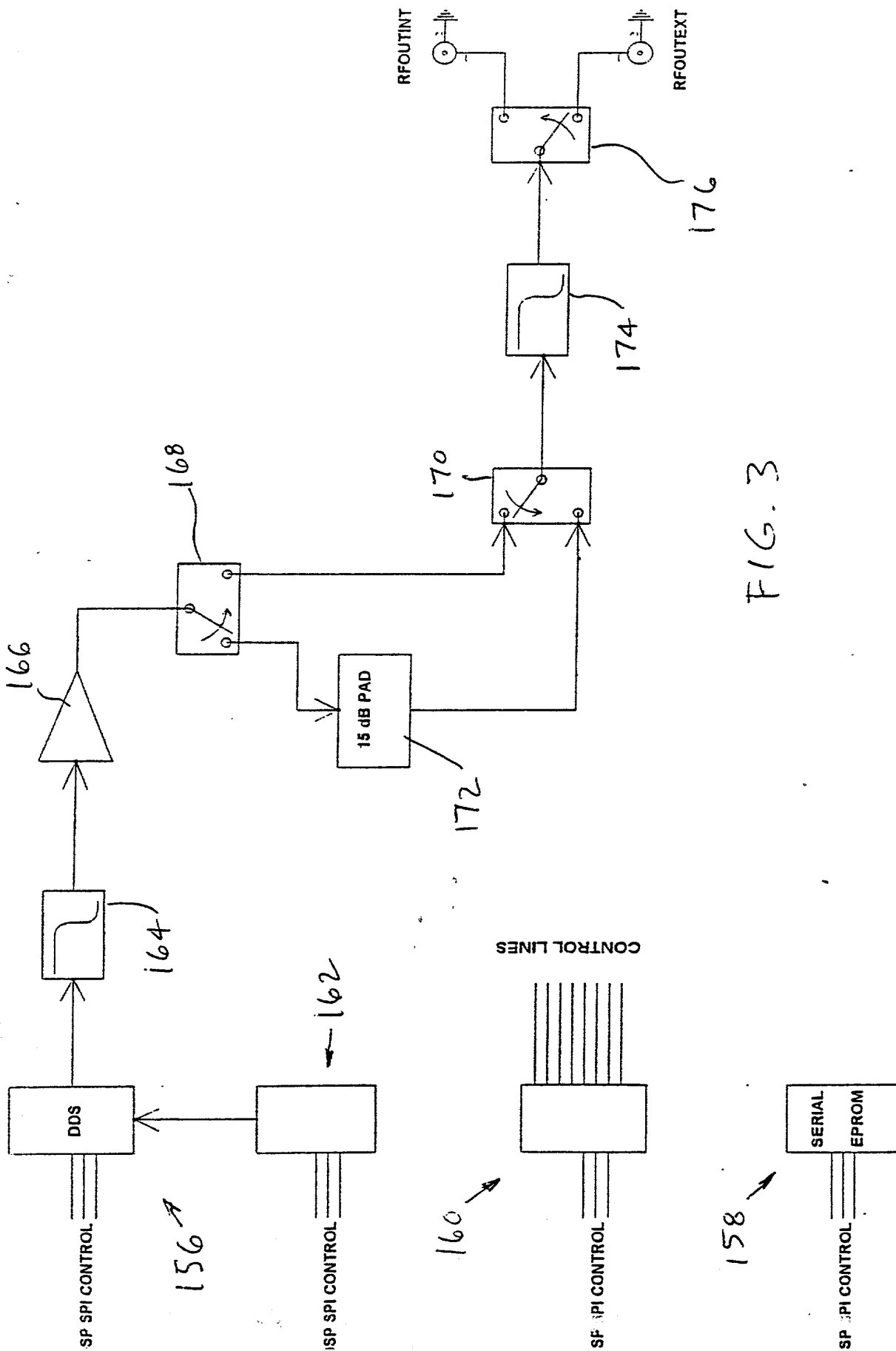
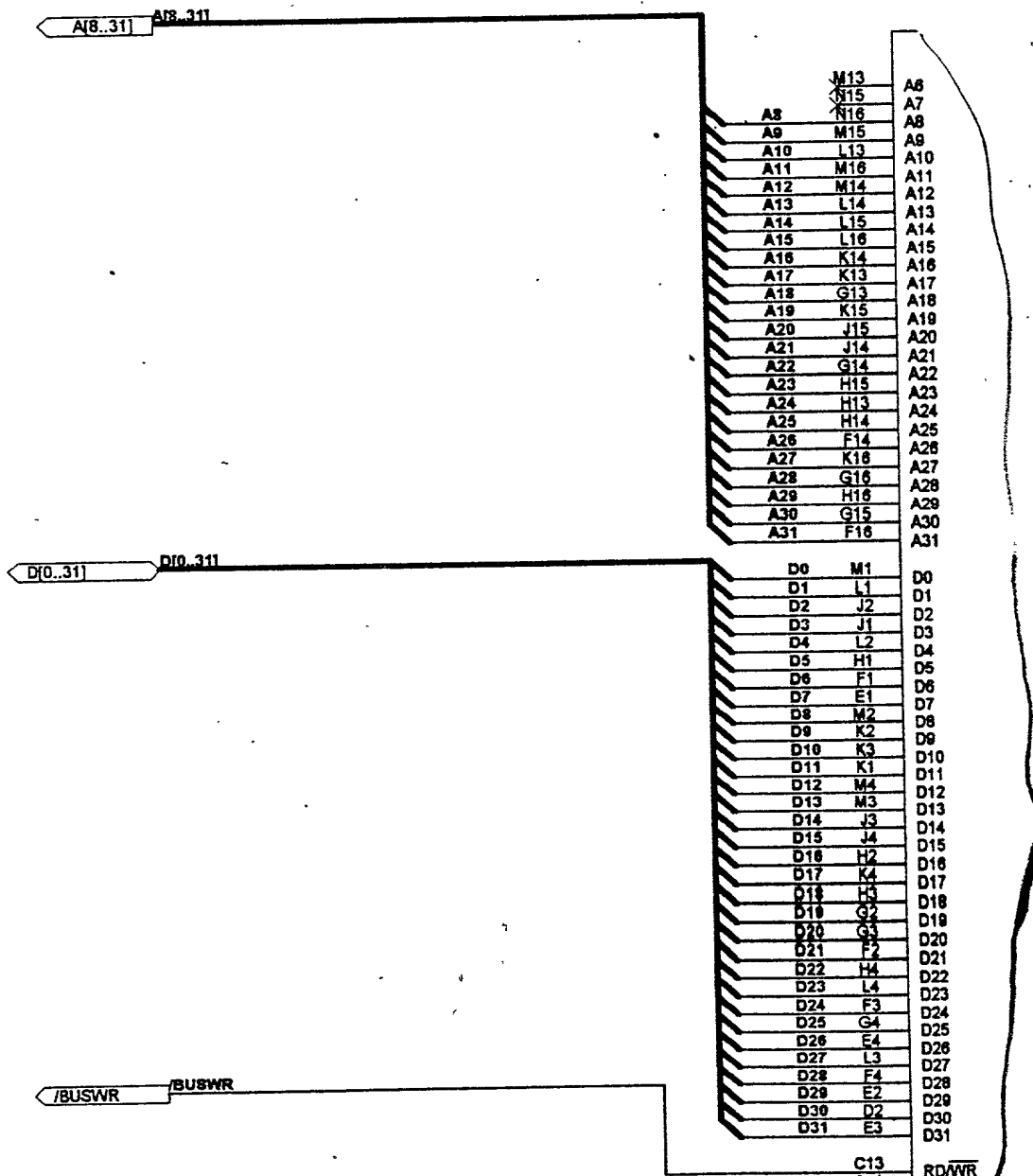


FIG. 3

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Inventor: Emsley, et al.
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F16 4a



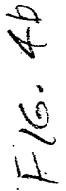
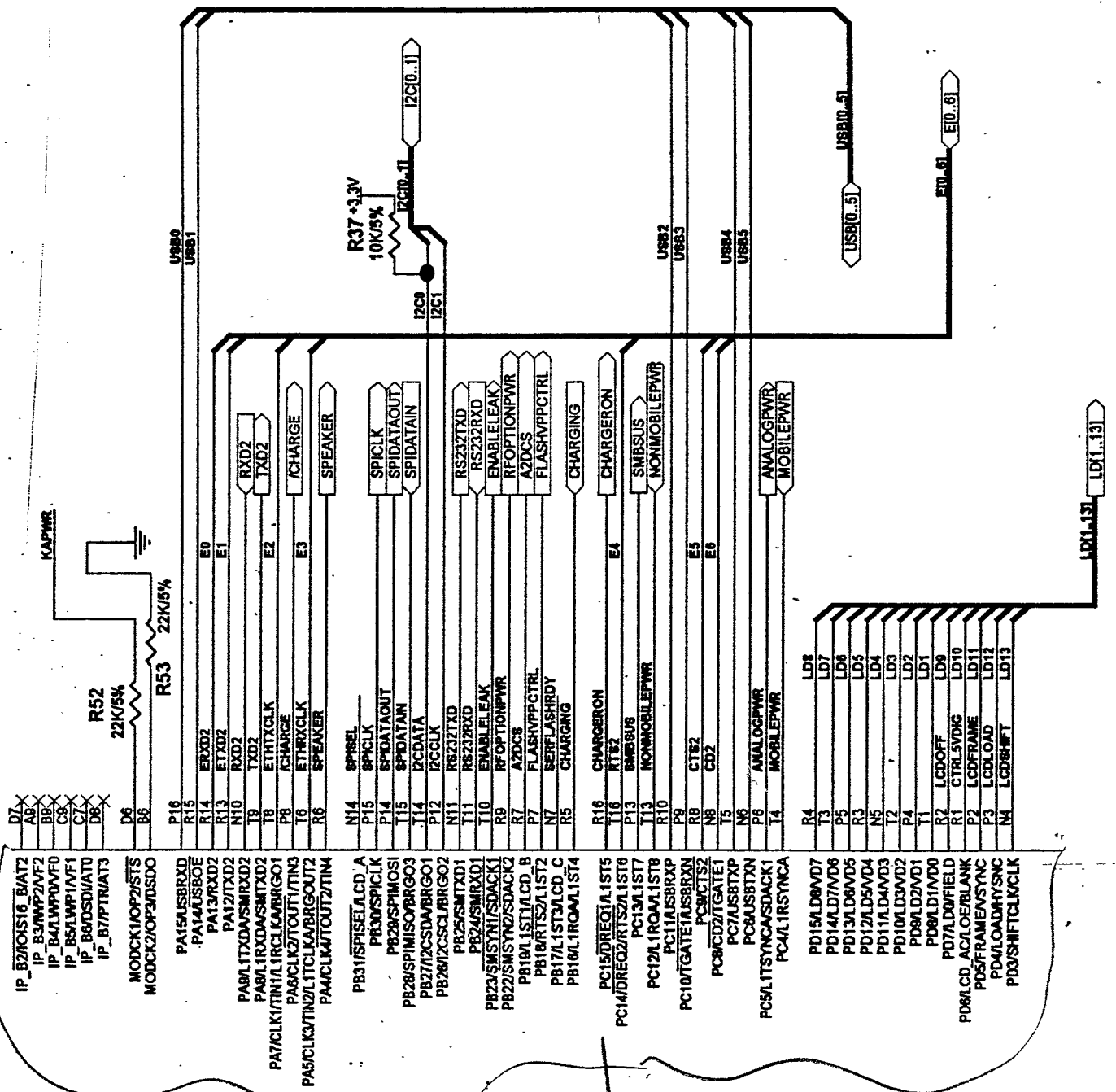


FIG 4C

FIG 4C



Flg. 4.d



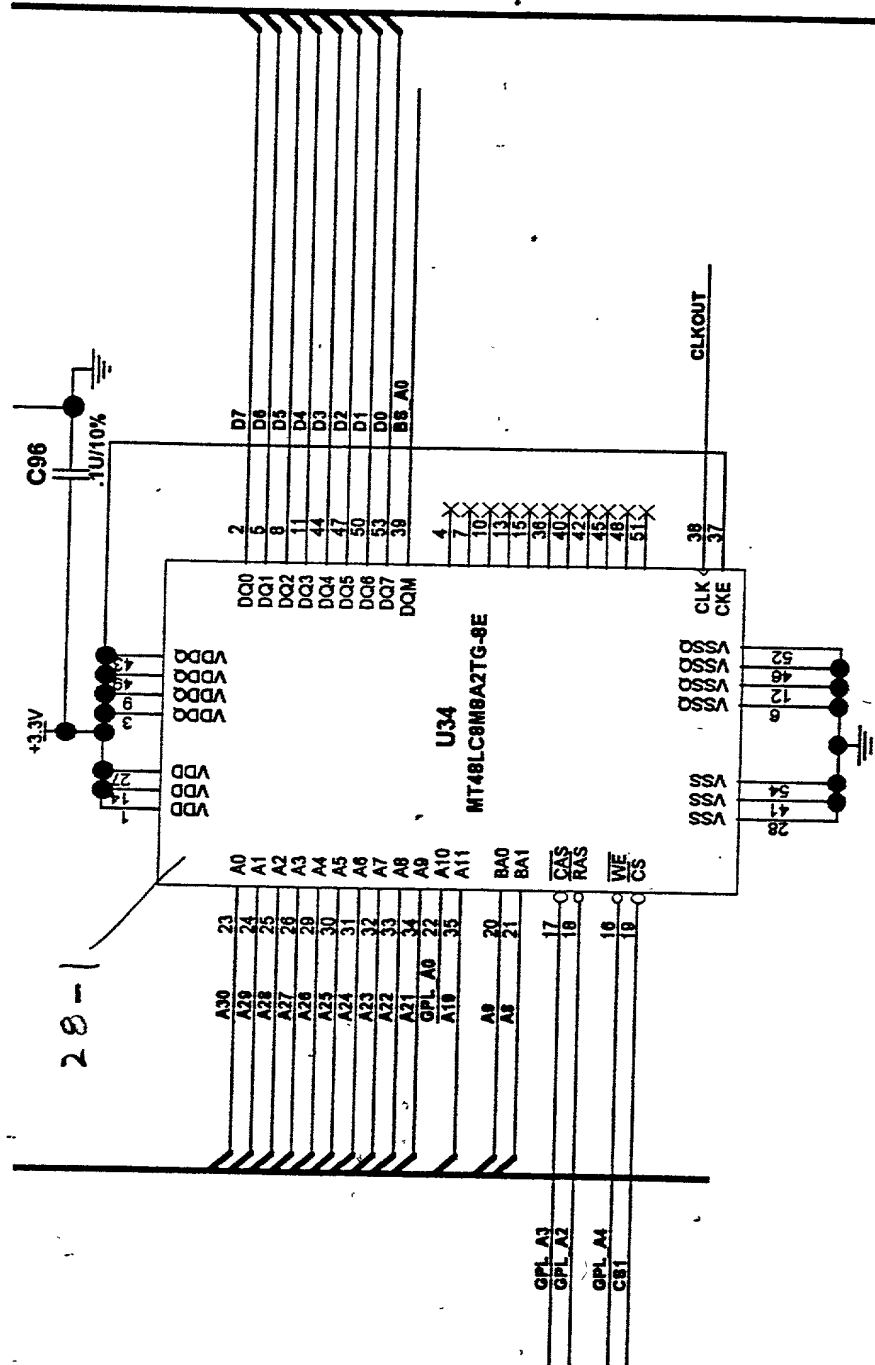
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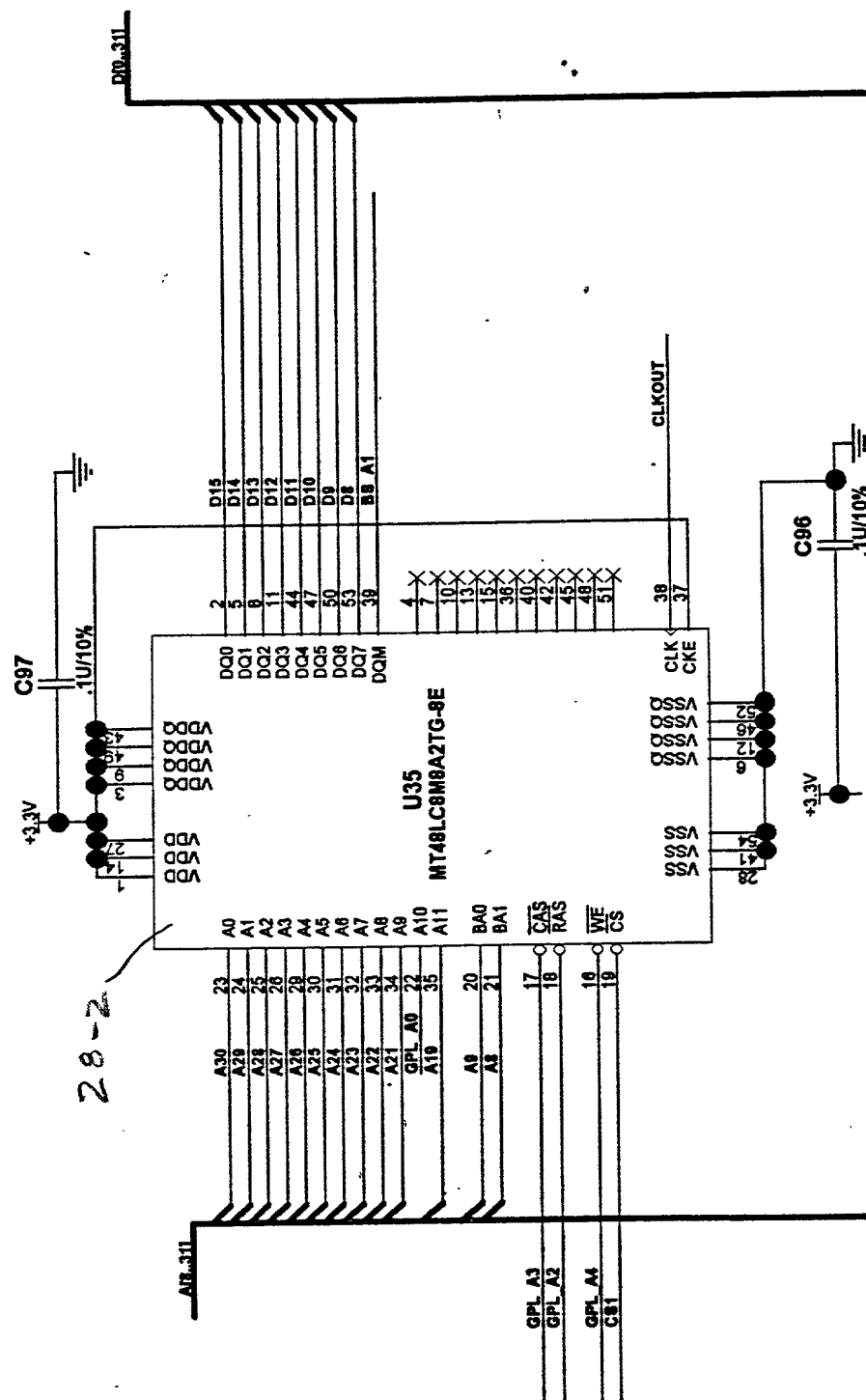
Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

7164

FIG. 4f

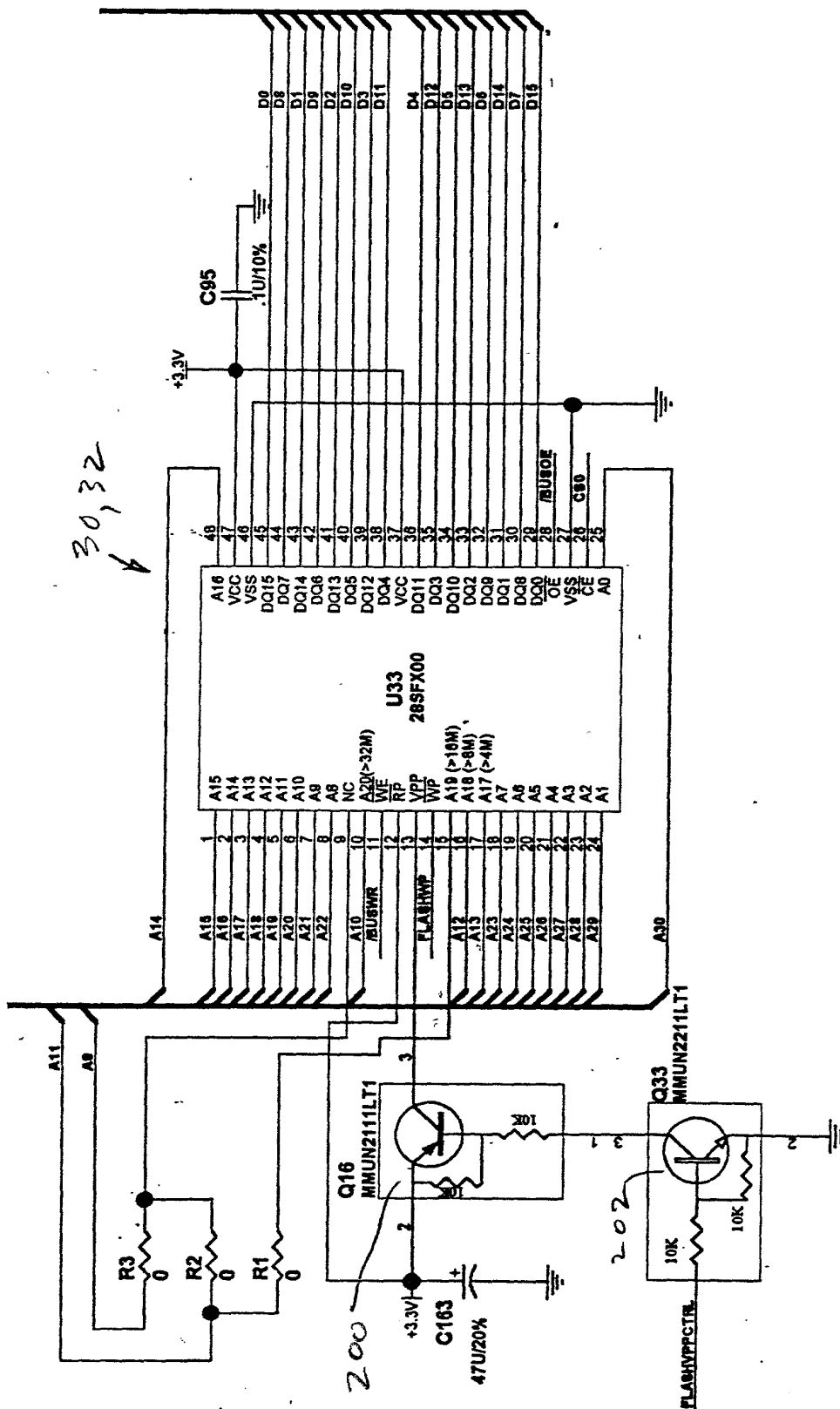


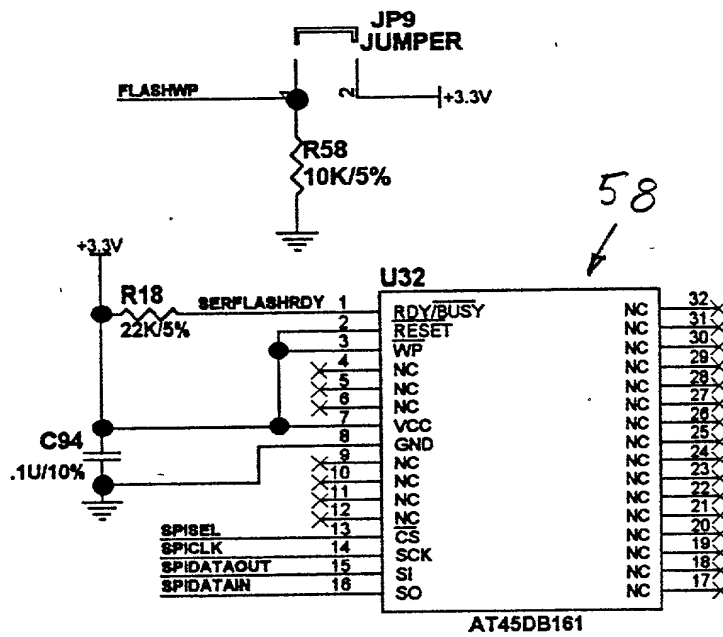
16 of



F16.4h

FIG. 4



$$F16 \ 4i$$


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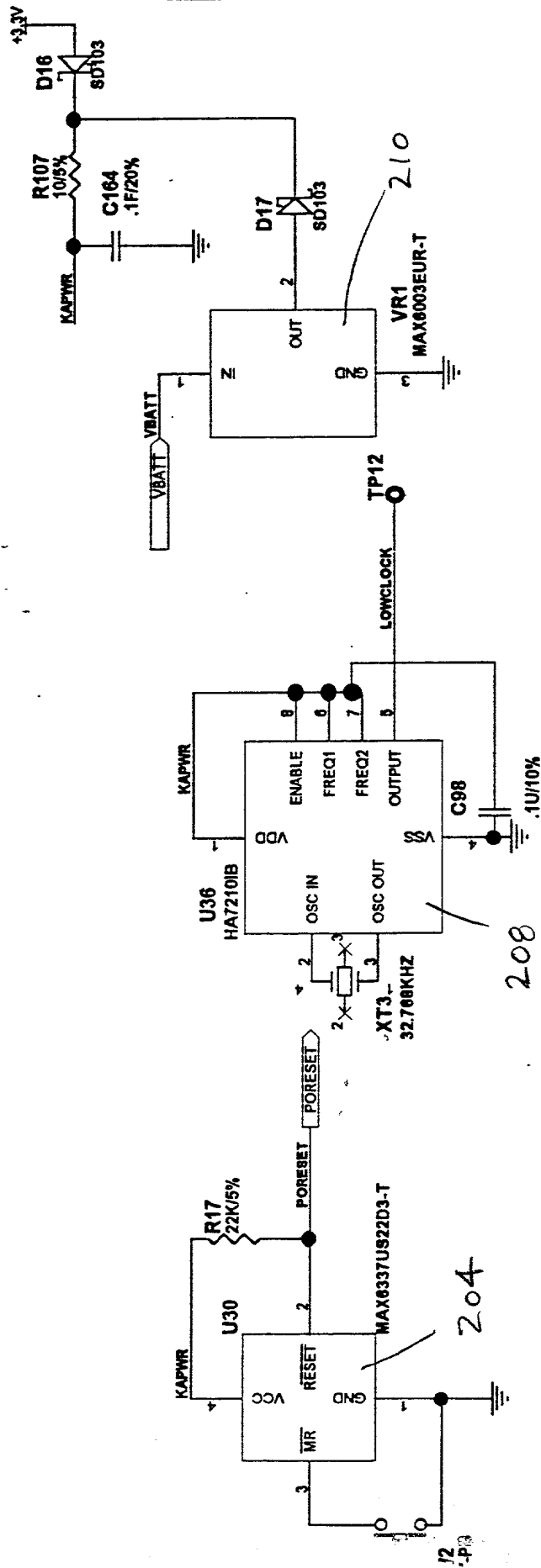


FIG. 48

Title: TESTING INSTRUMENT

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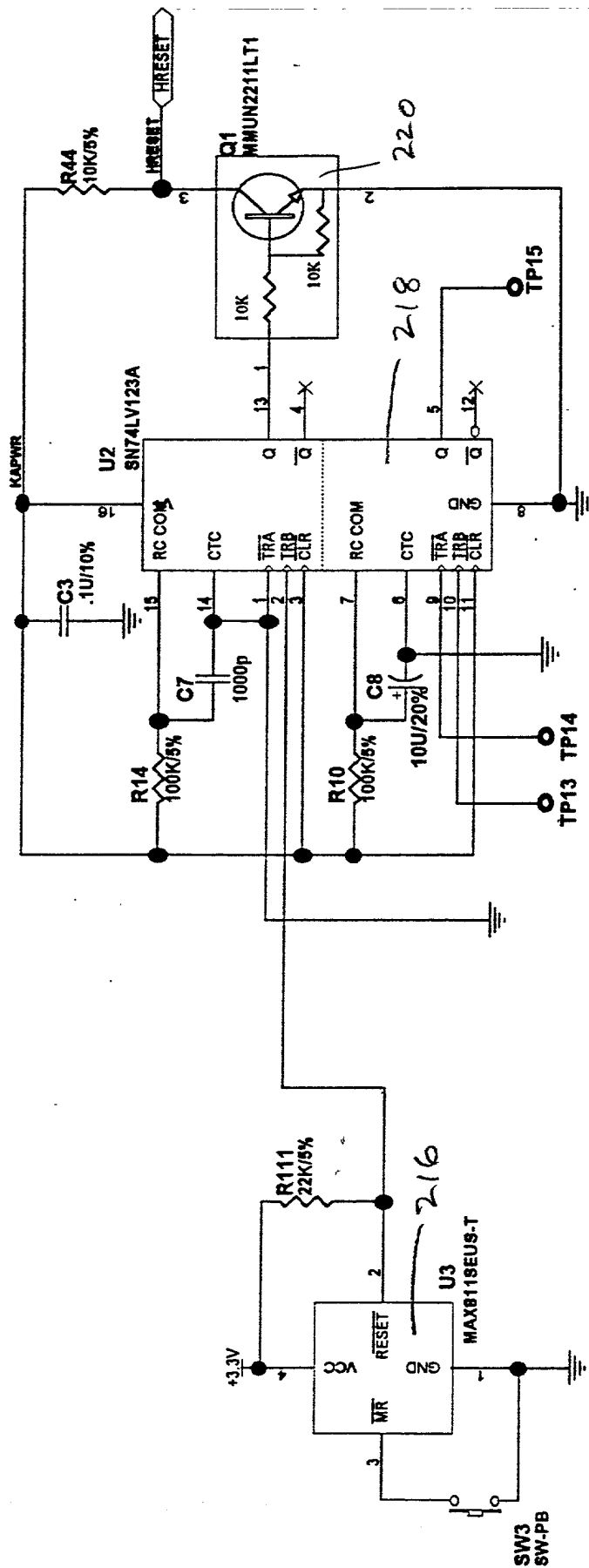


FIG. 4k

FIG. 5a

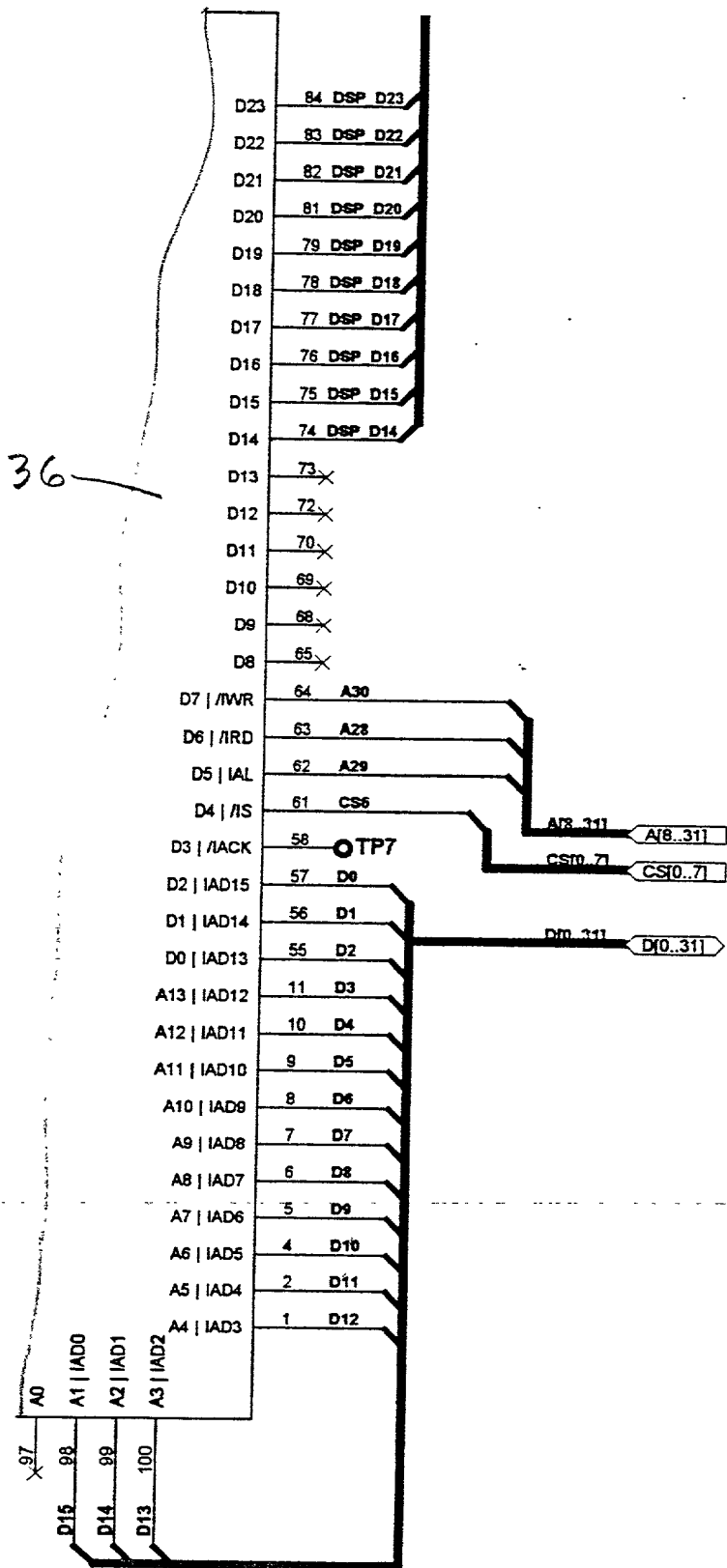
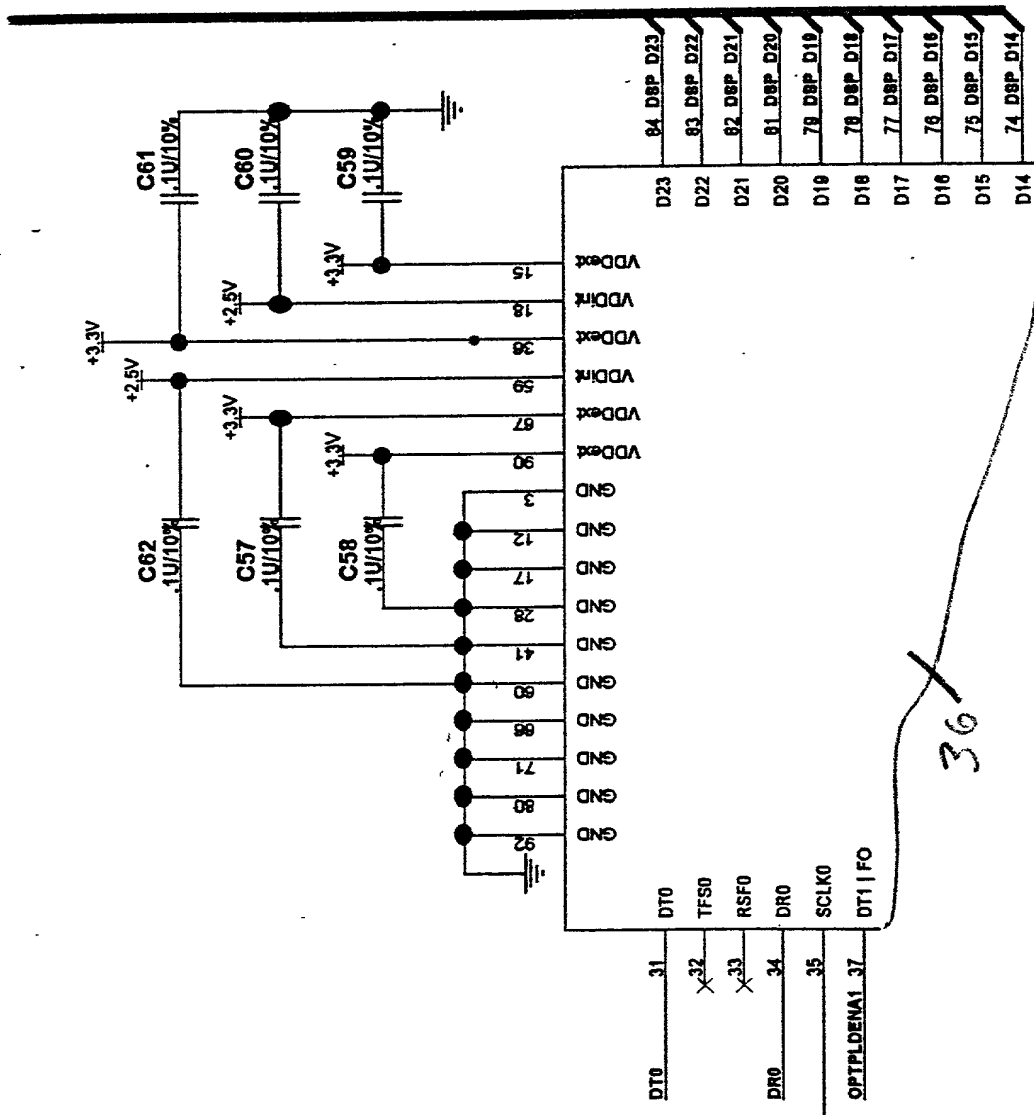


FIG. 5b



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F16-5C

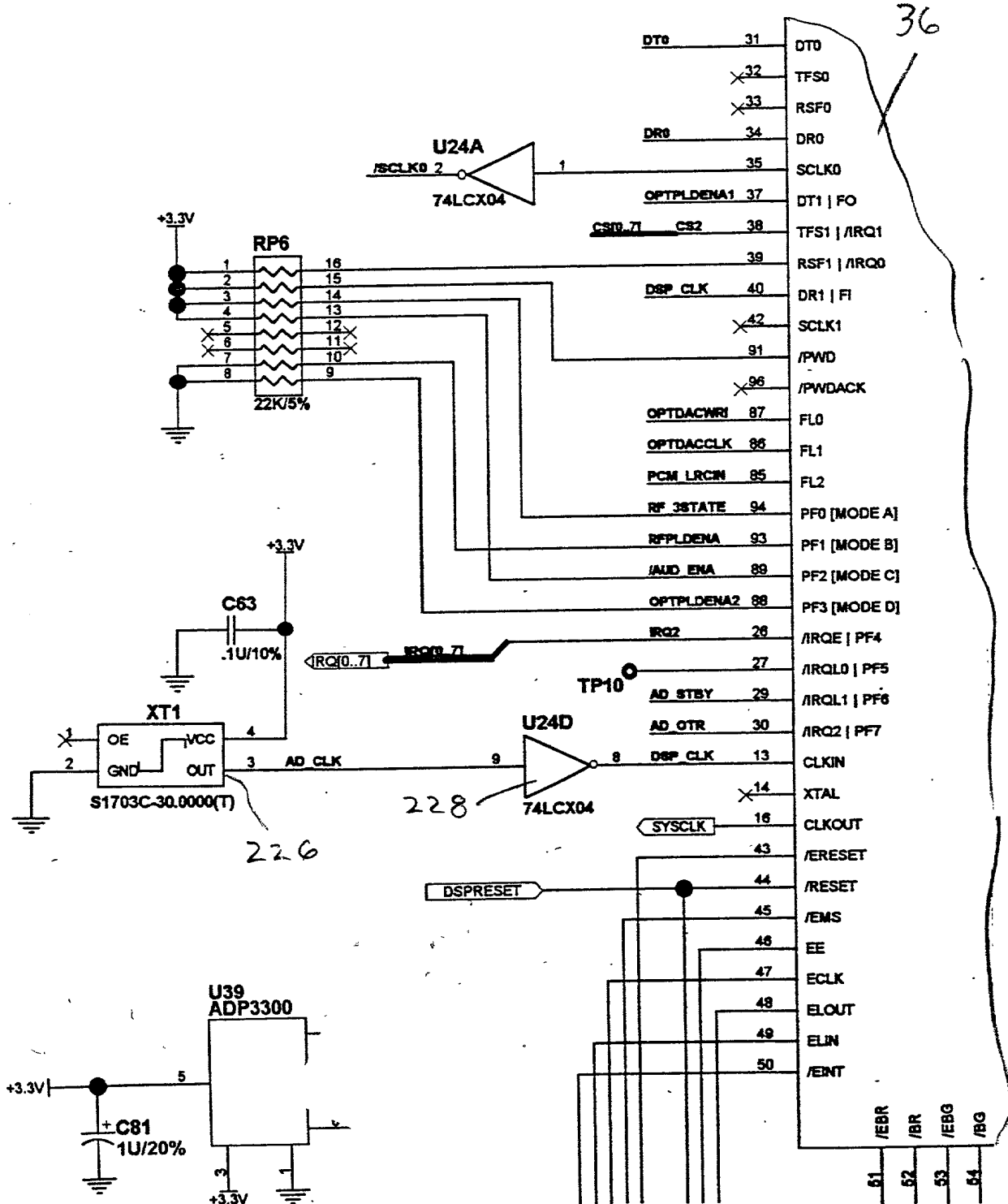
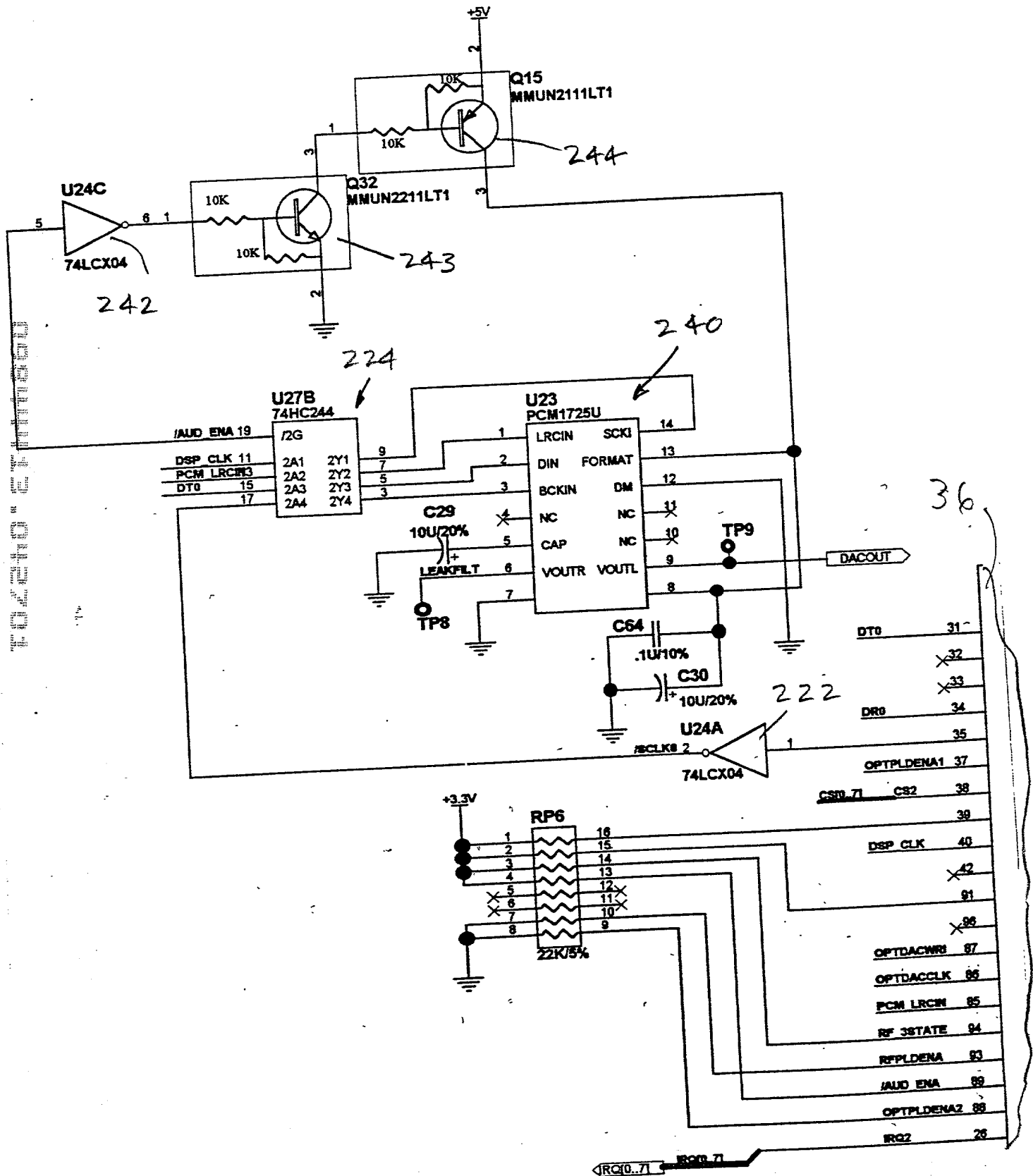


FIG. 5d



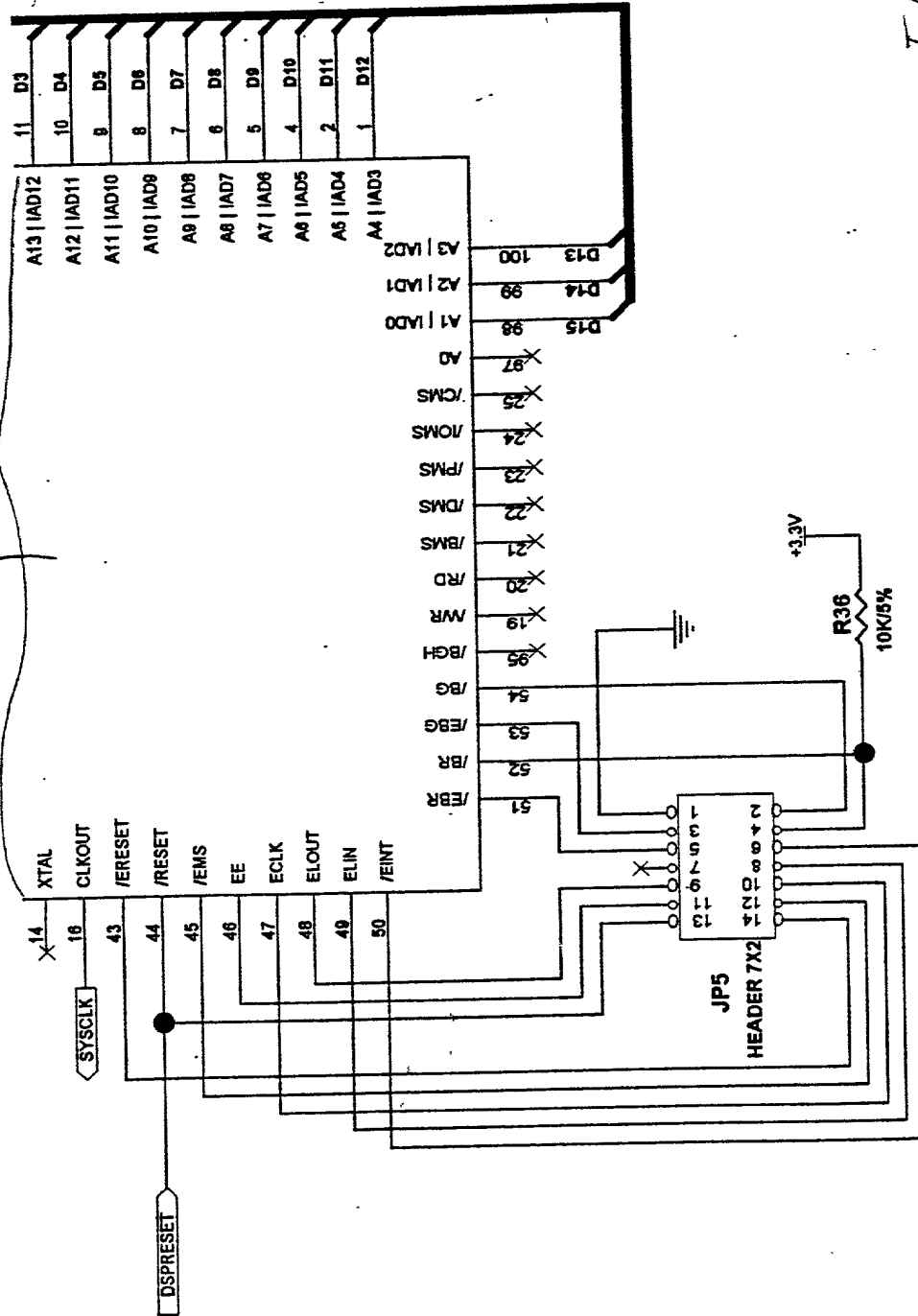


Fig. 5e

FIG. 5 f

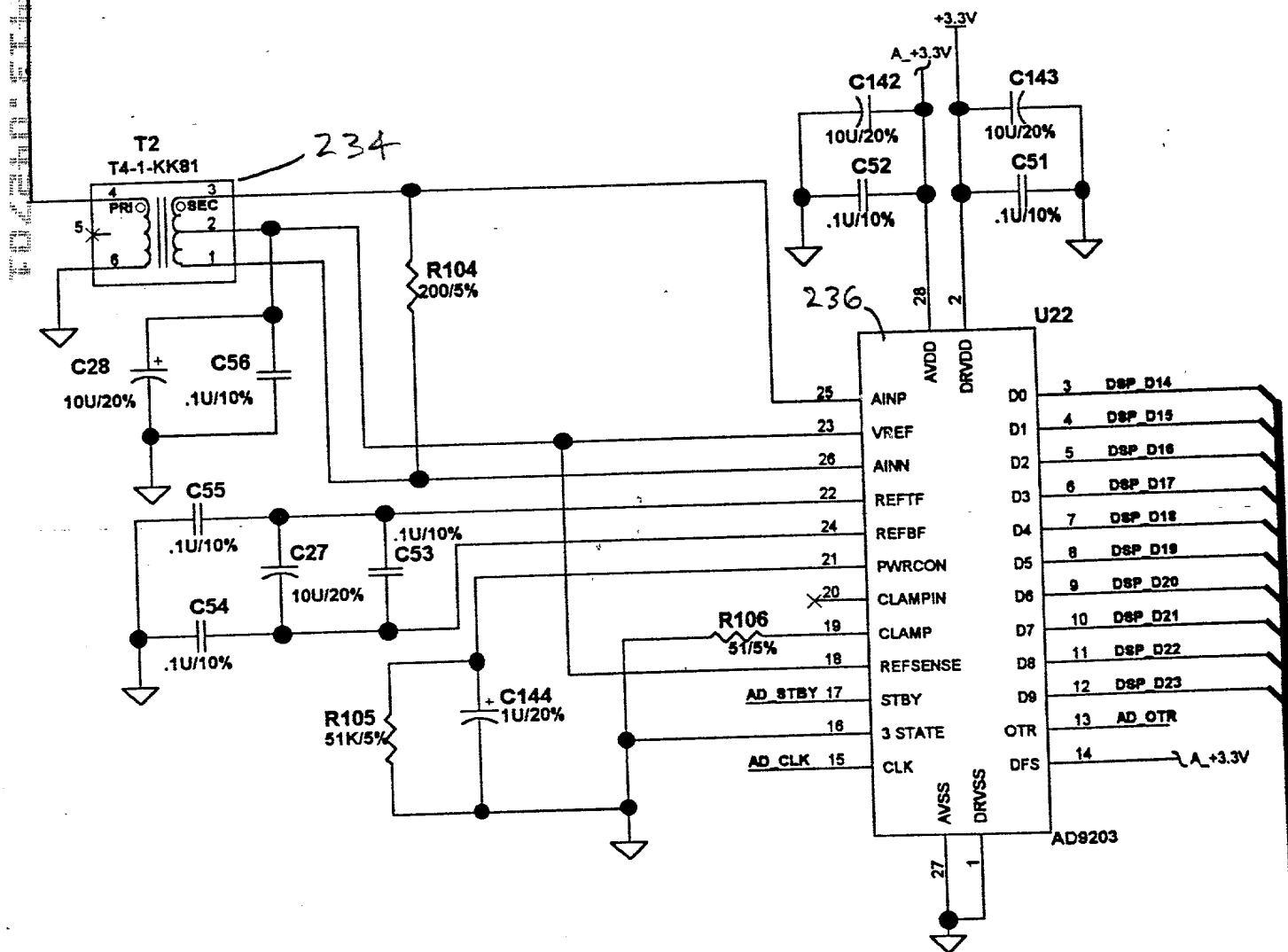
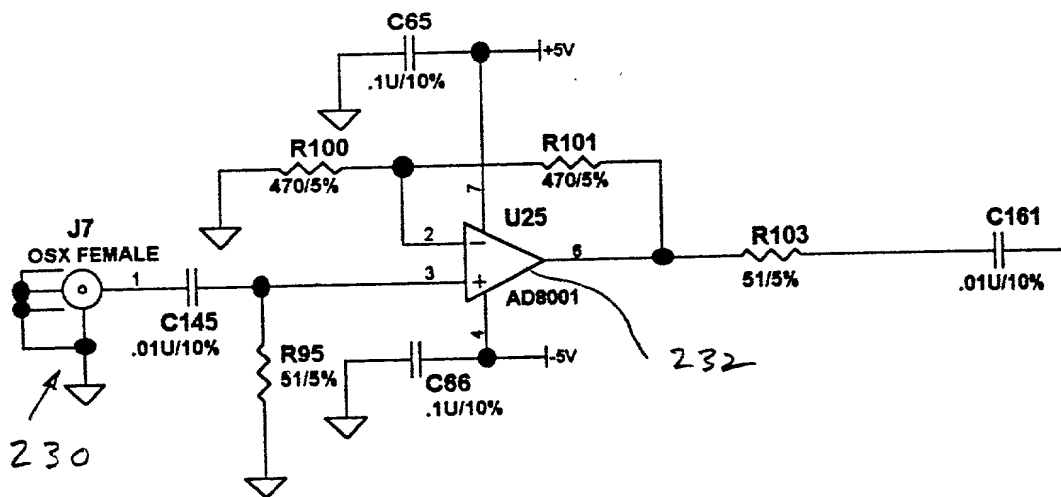


FIG. 6

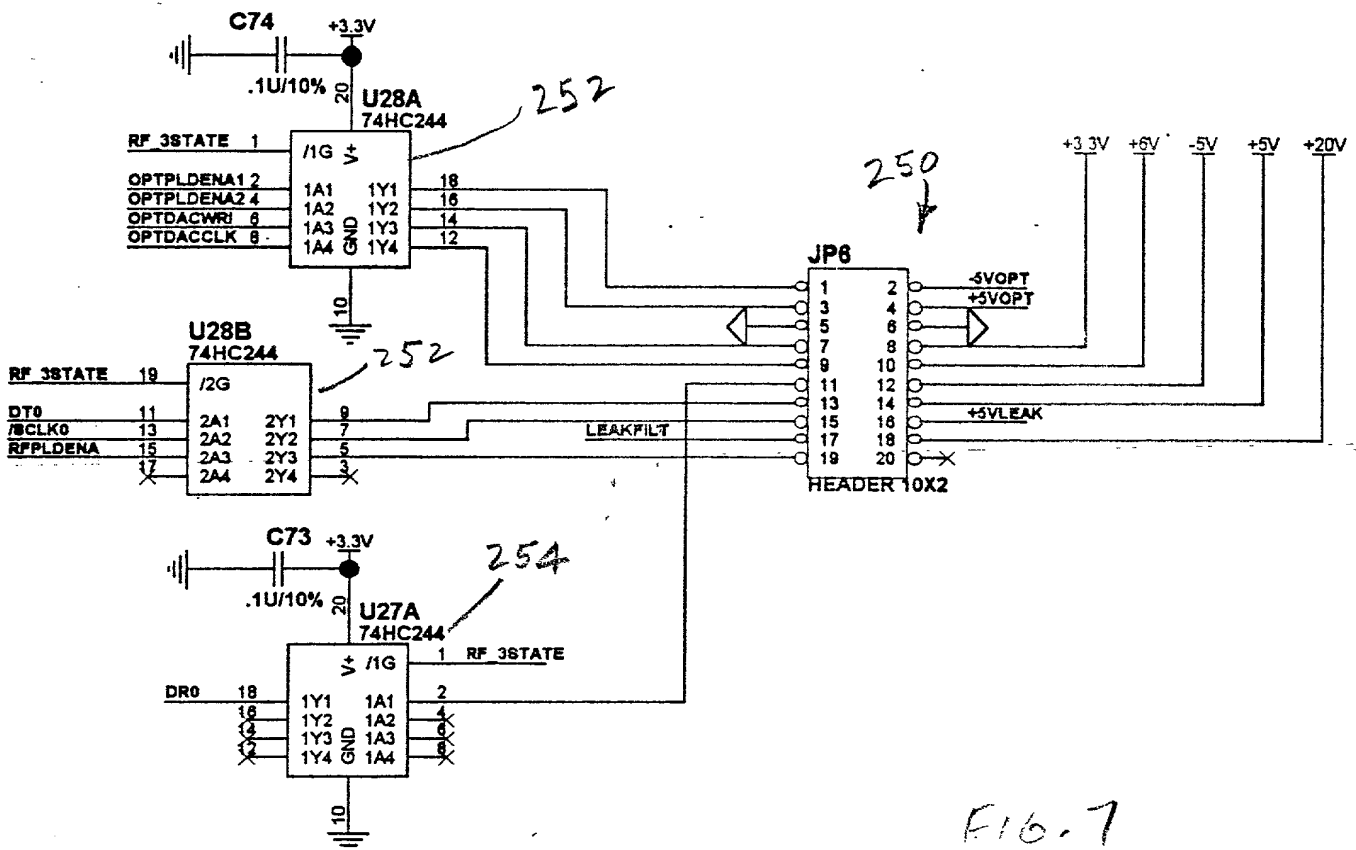
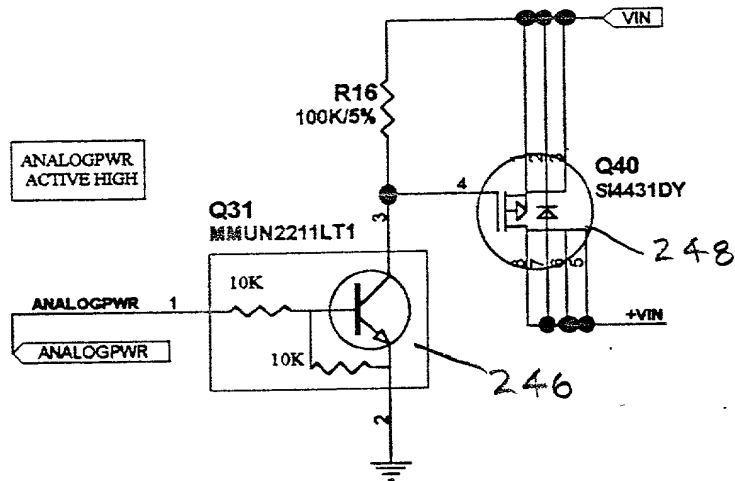
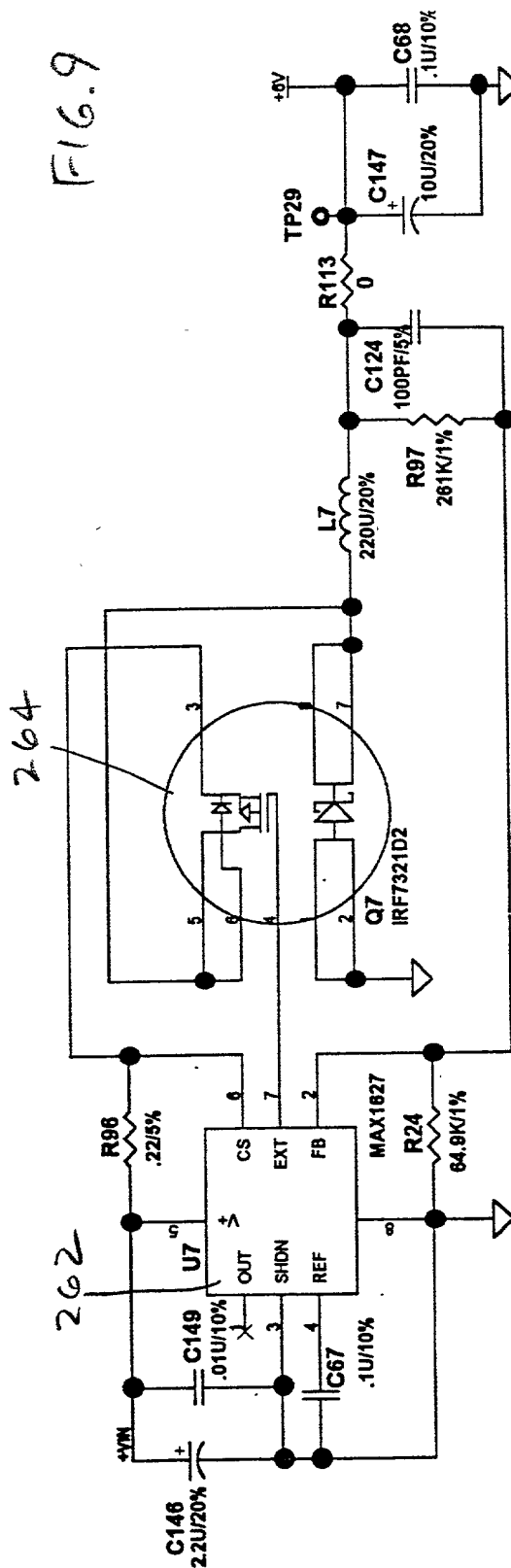
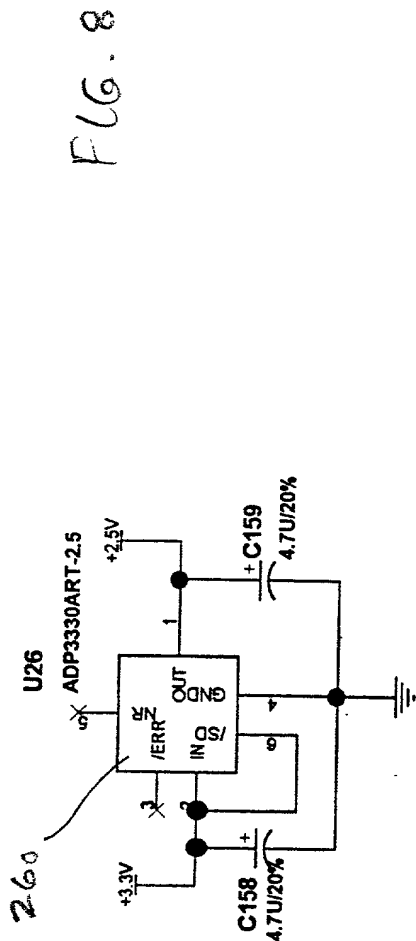


FIG. 7



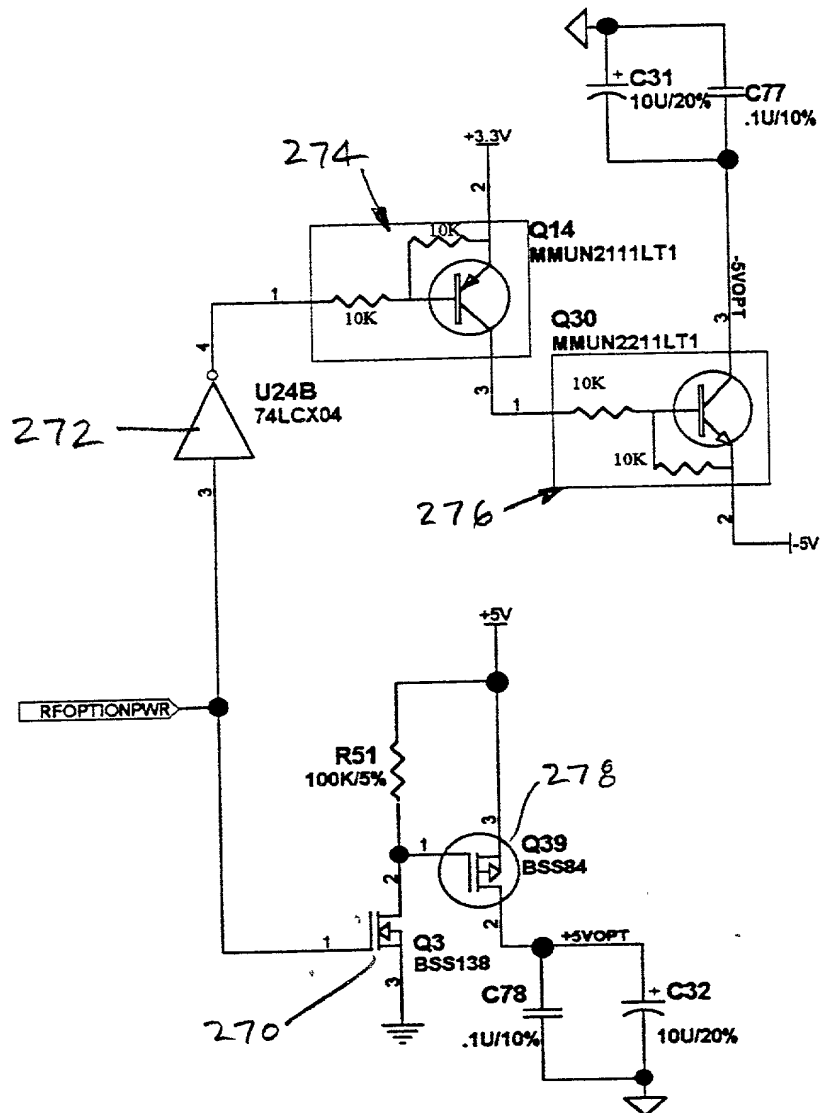


FIG. 10

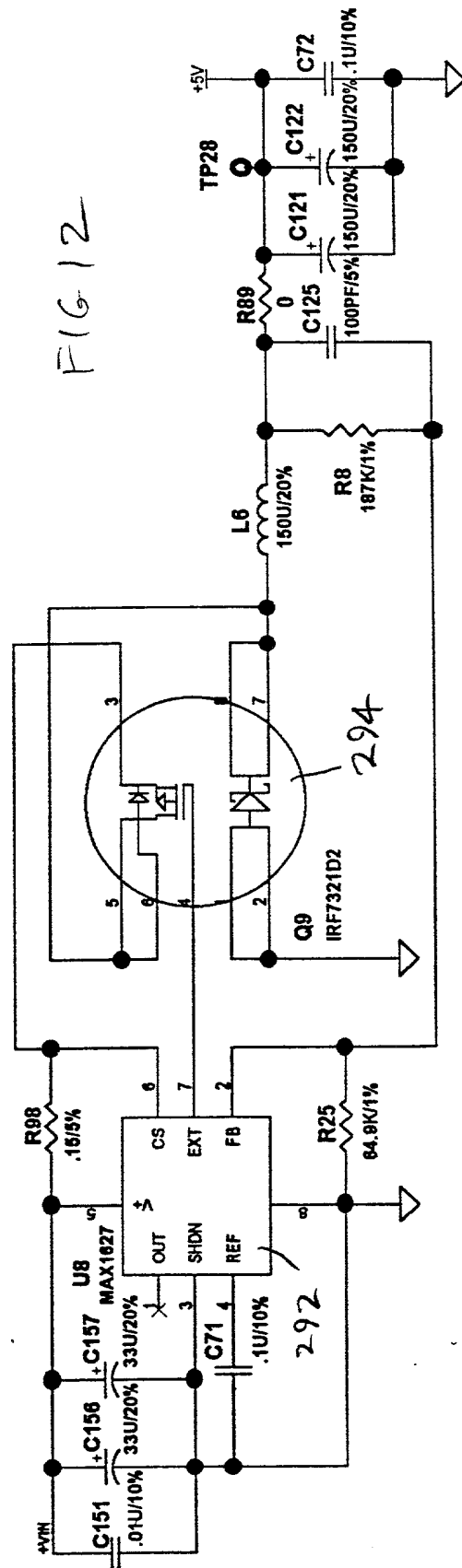
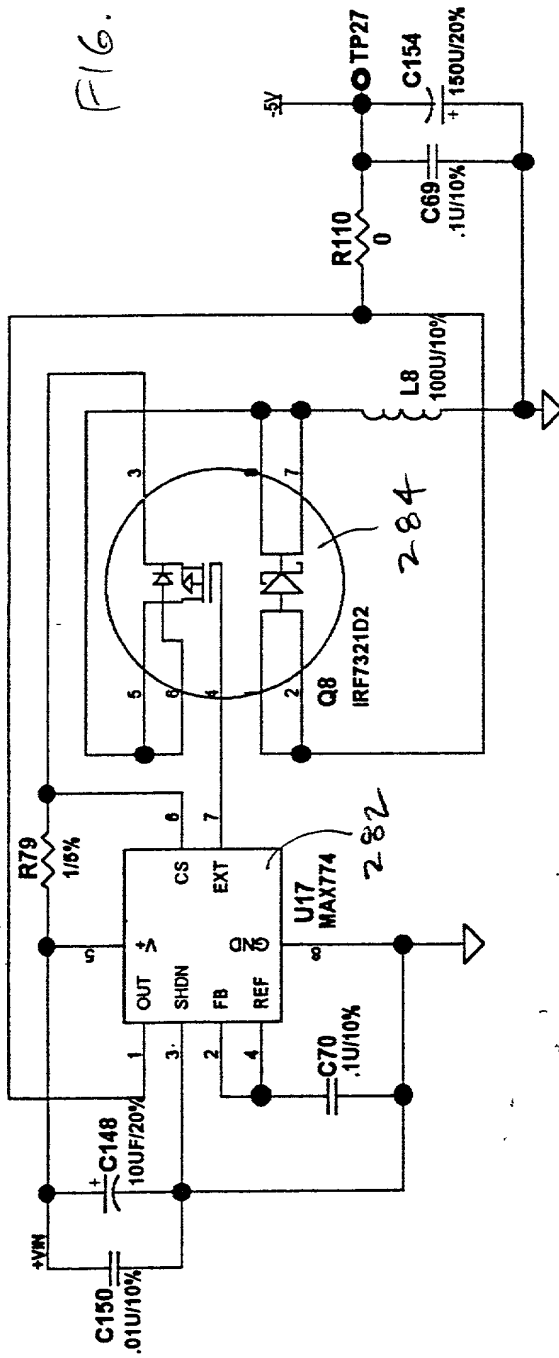


FIG. 13

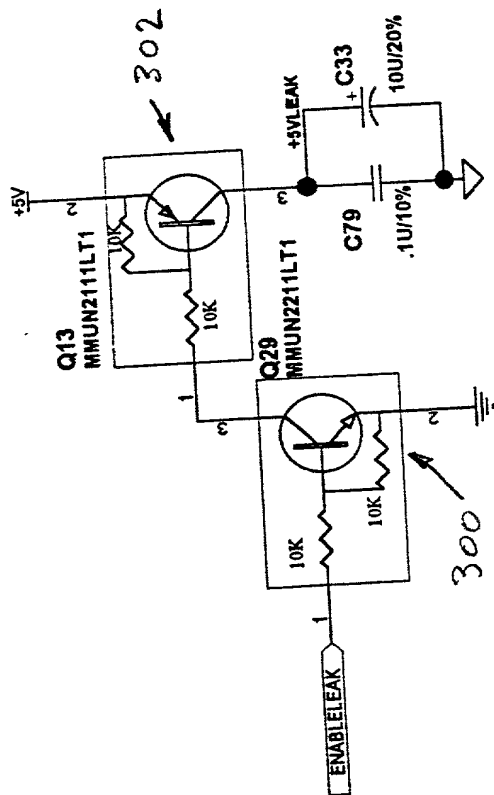
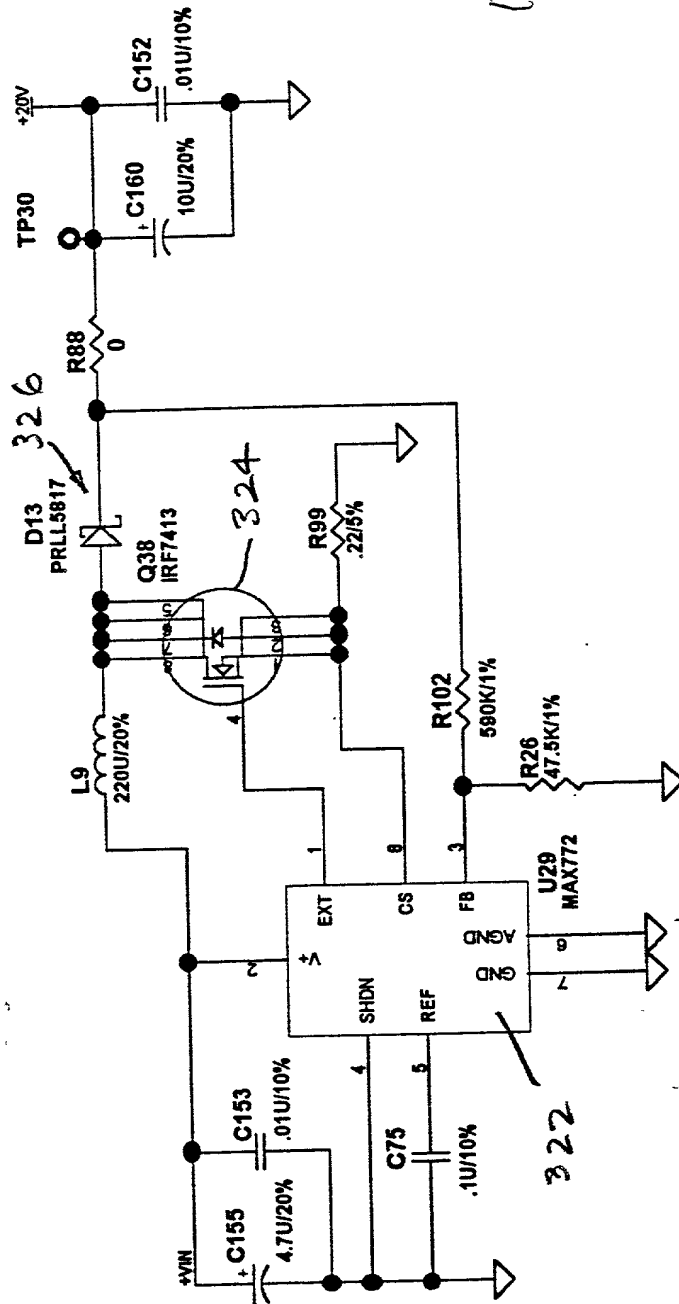


FIG. 14



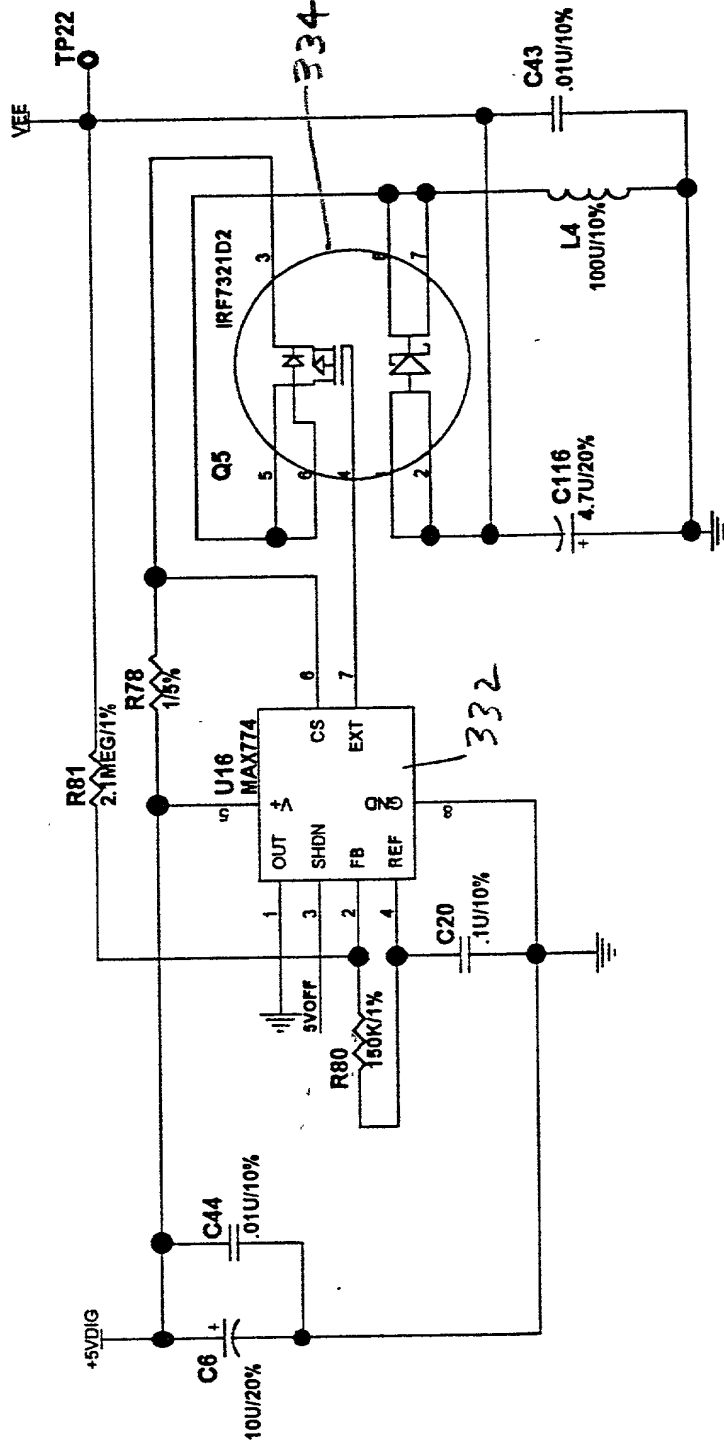


FIG. 15



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 252

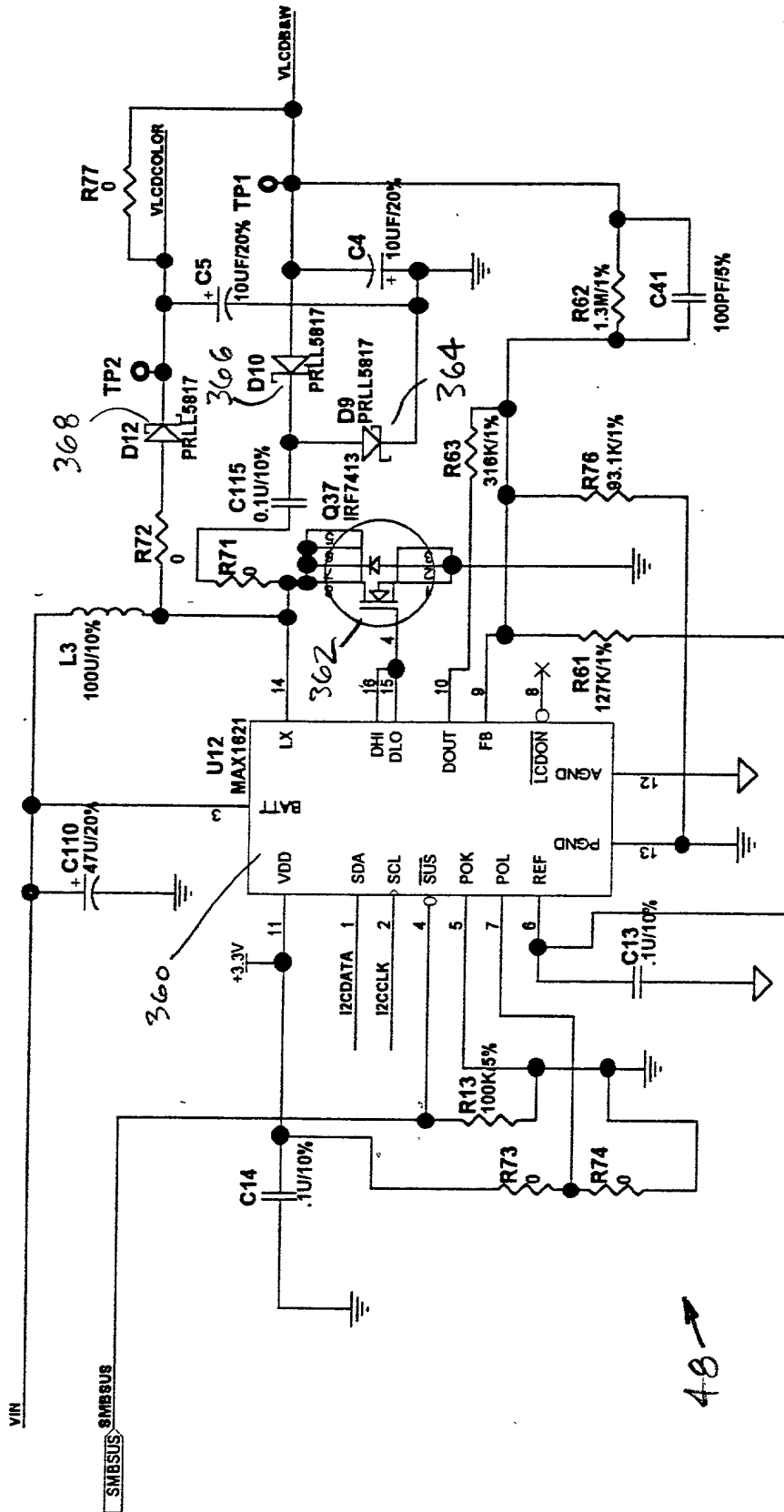
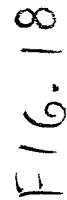


FIG. 17



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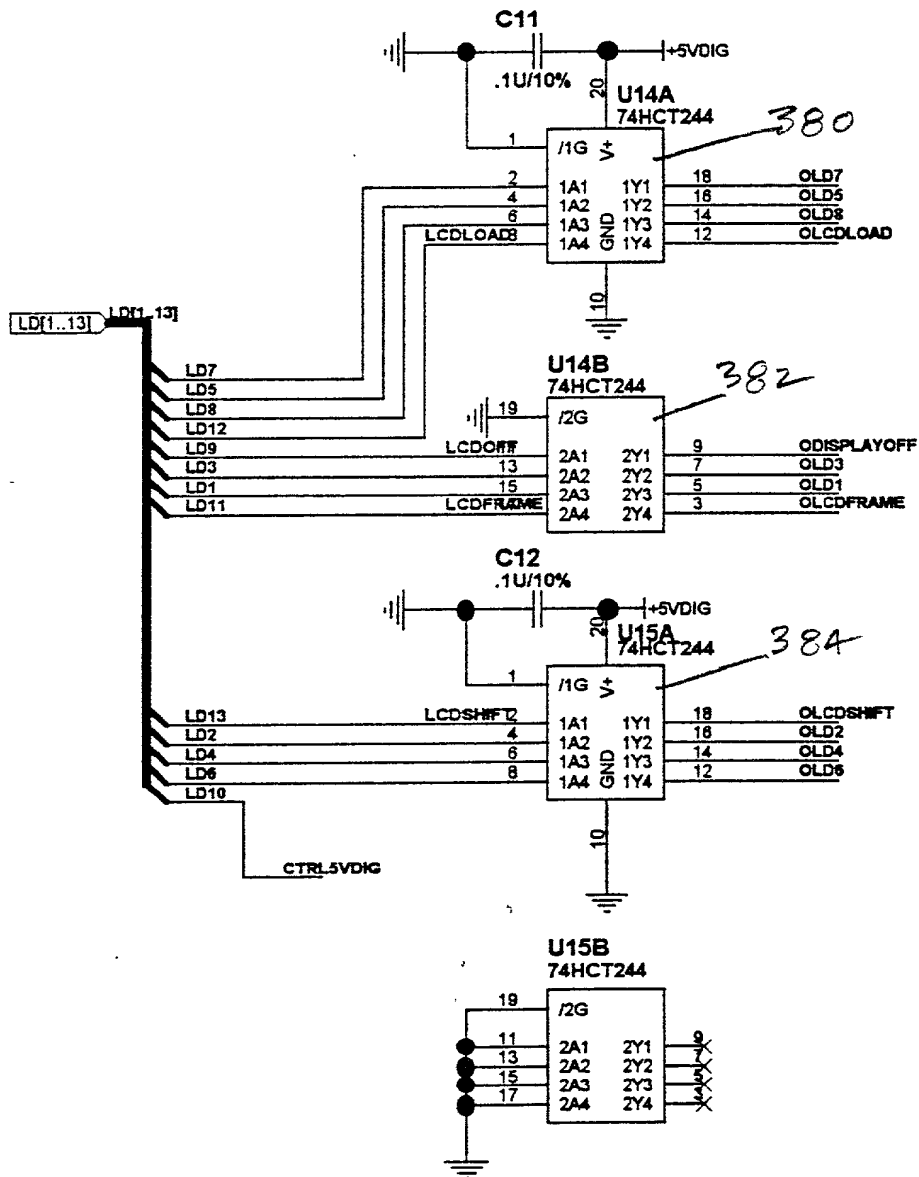


FIG. 19

Title: TESTING INSTRUMENT
Inventor: Emsley, et al.
Docket: 6573-68375

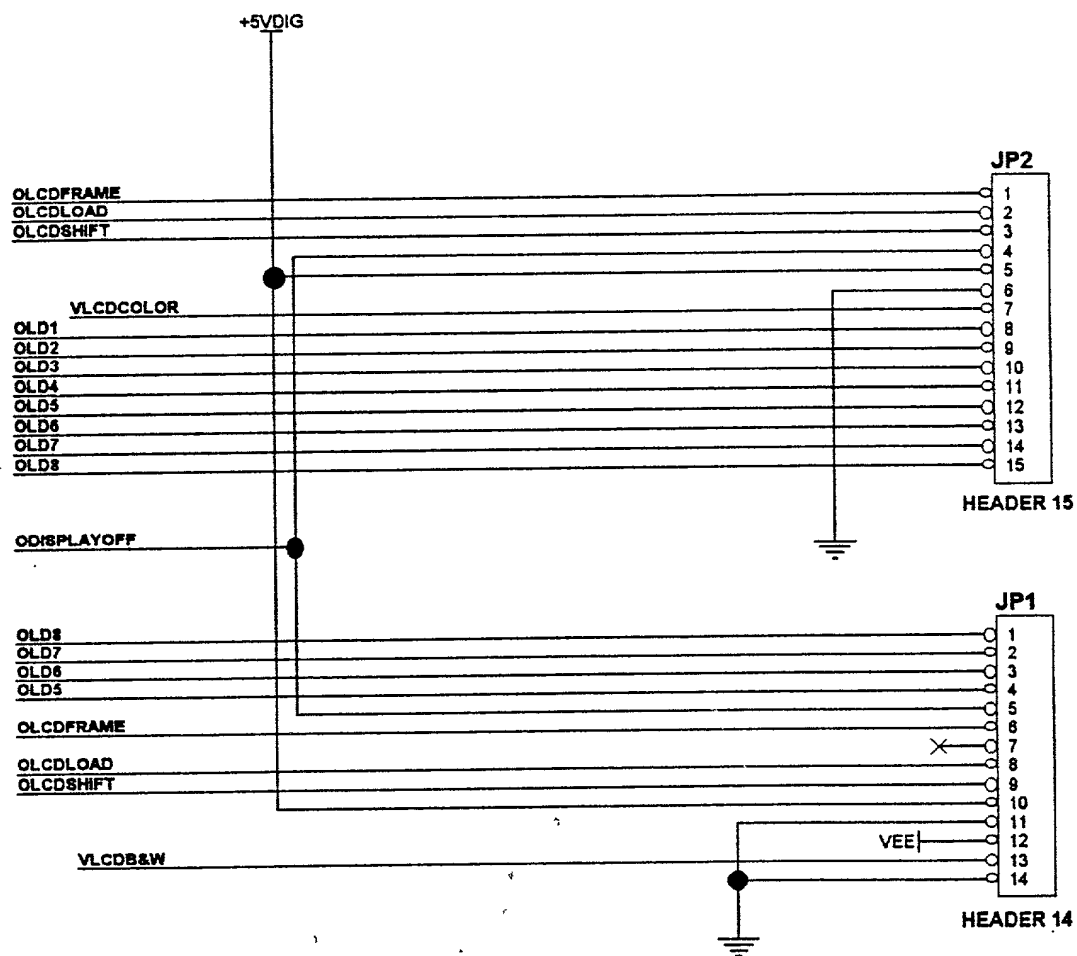


FIG. 20

FIG. 21

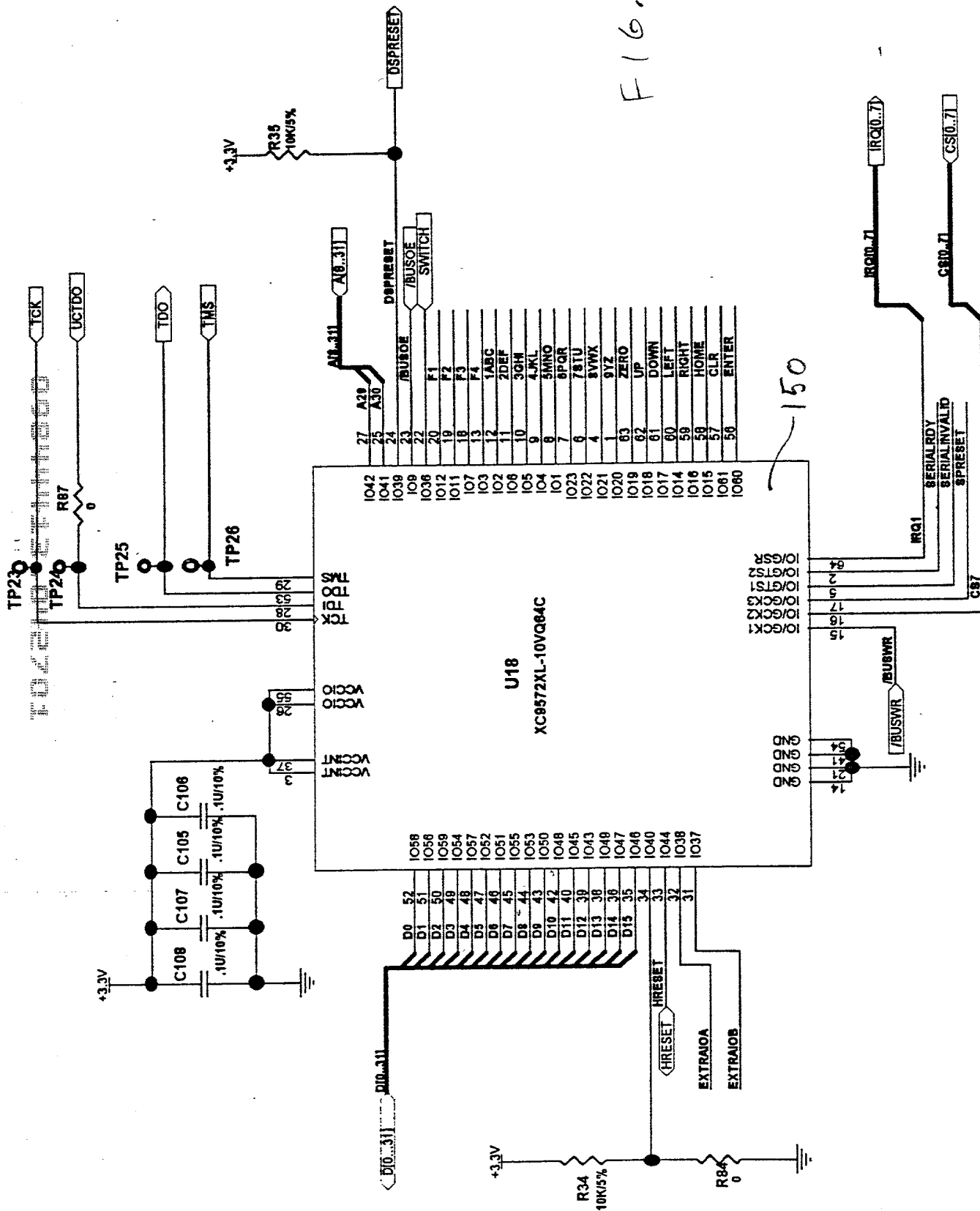
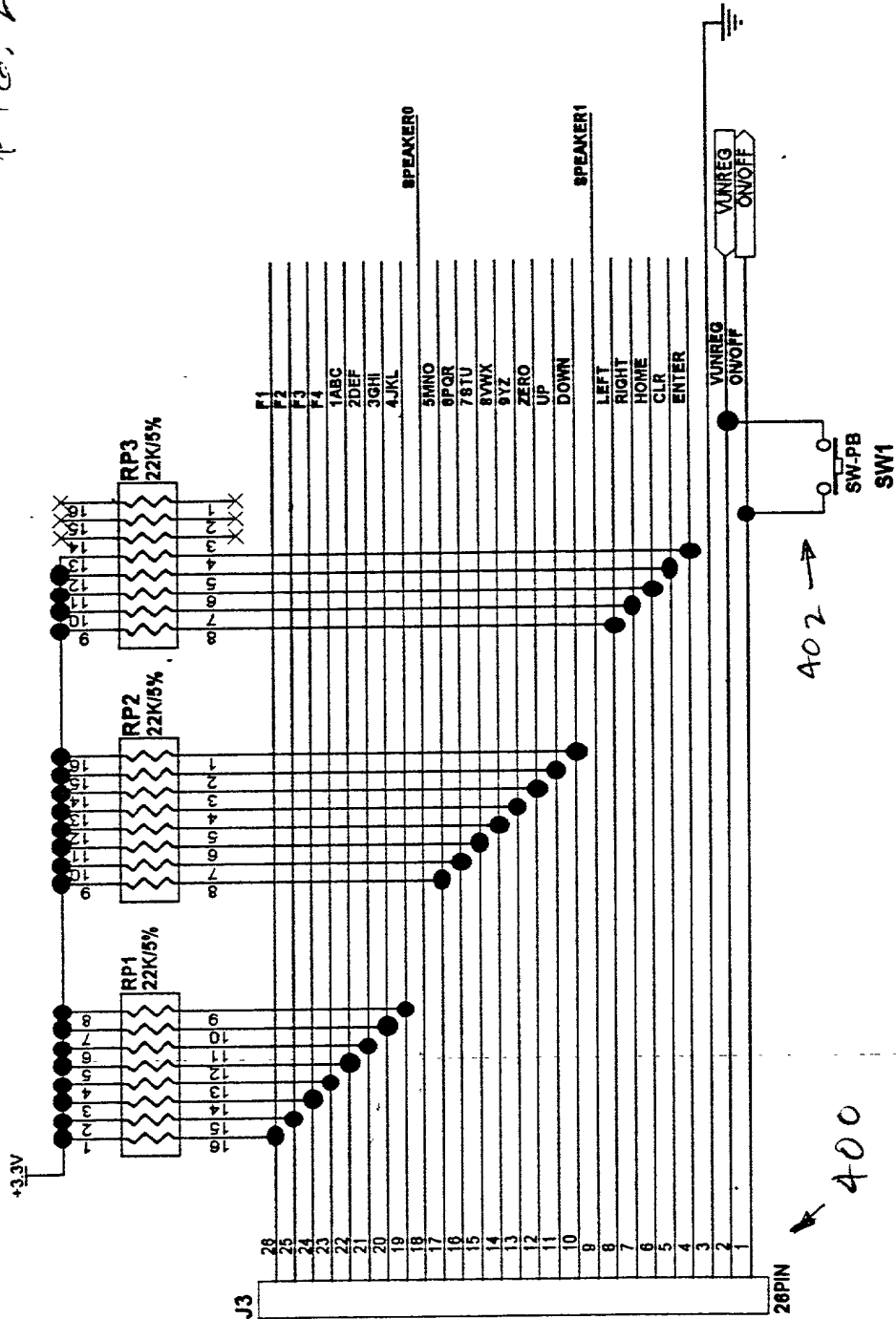


FIG. 22



Title: TESTING INSTRUMENT
 Inventor: Emsley, et al.
 Docket: 6573-68375

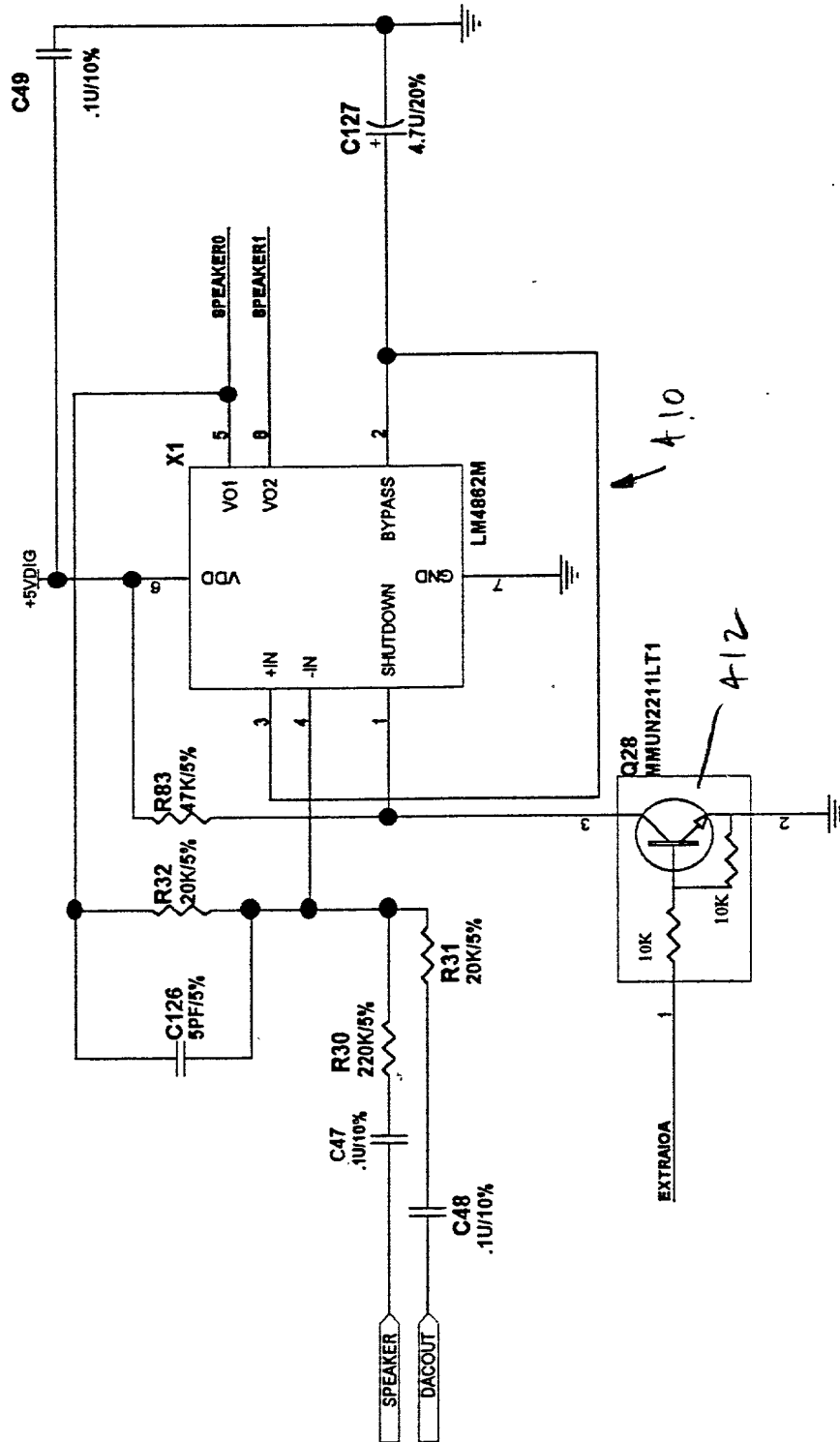
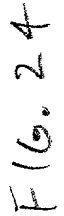


FIG. 23



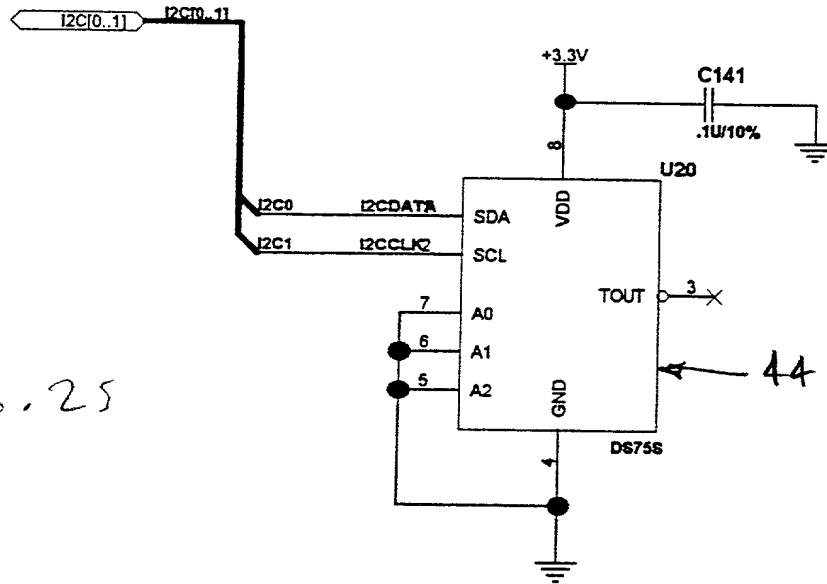


FIG. 25

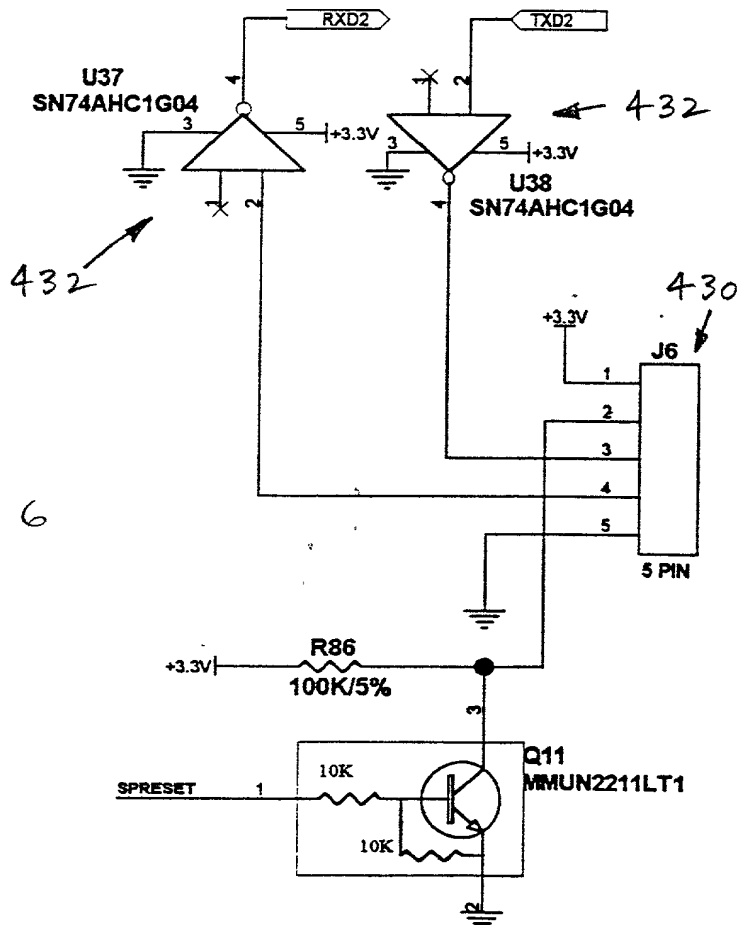


FIG. 26

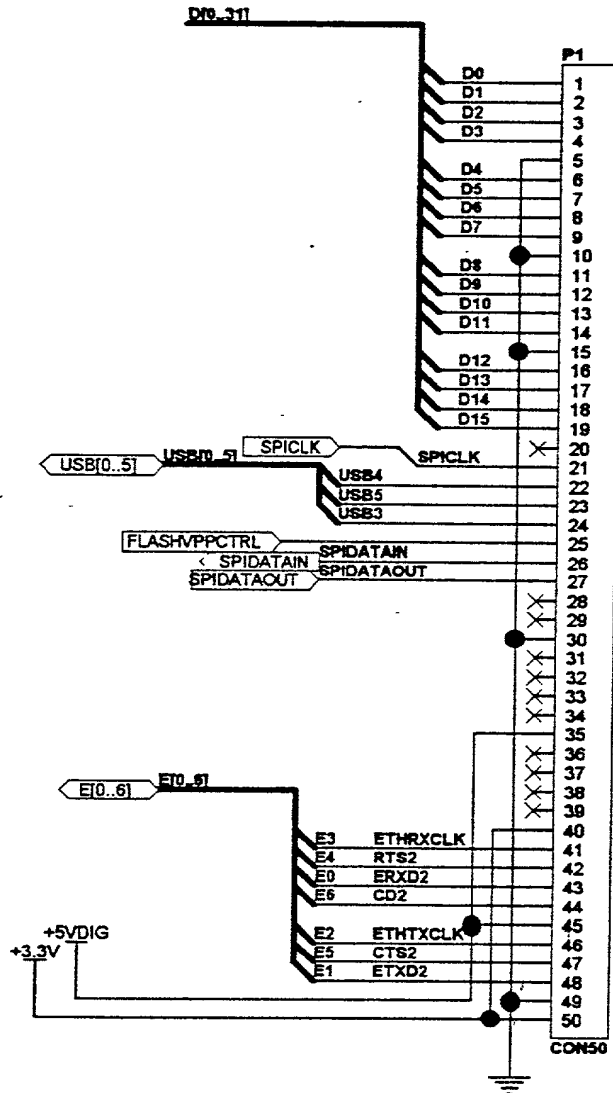


FIG. 27

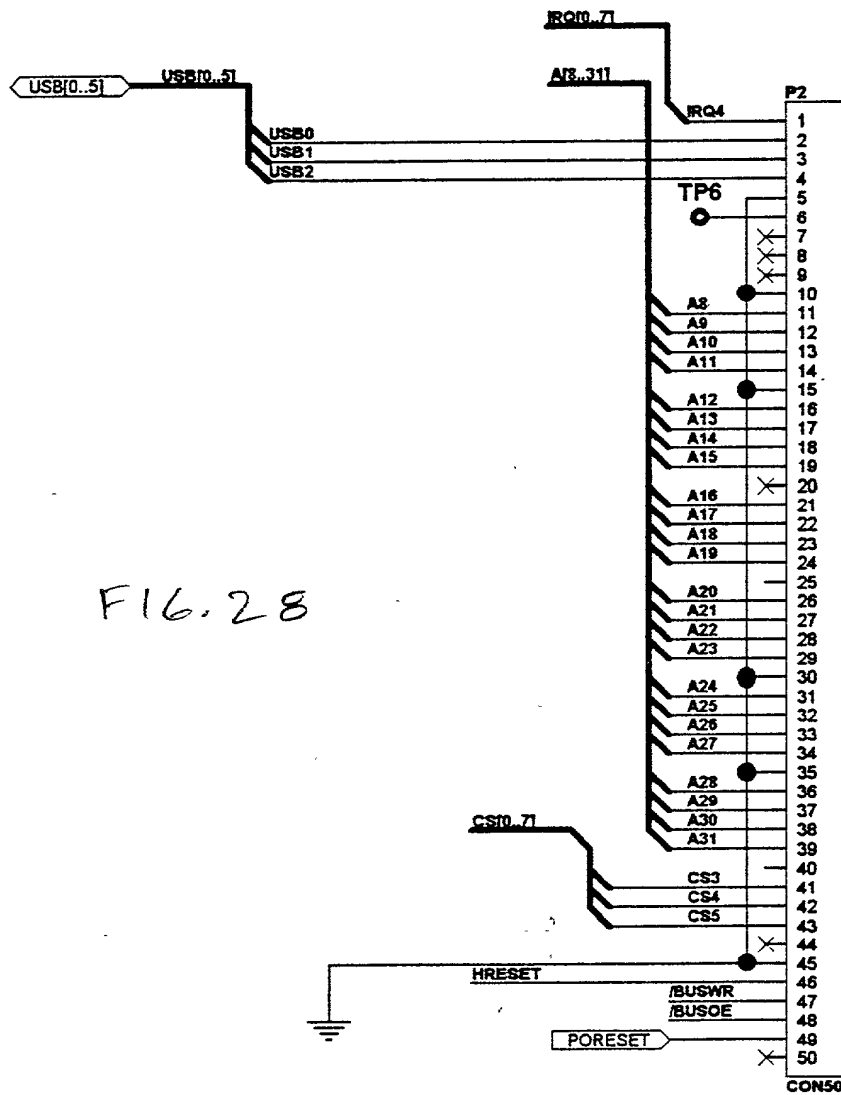


FIG. 28

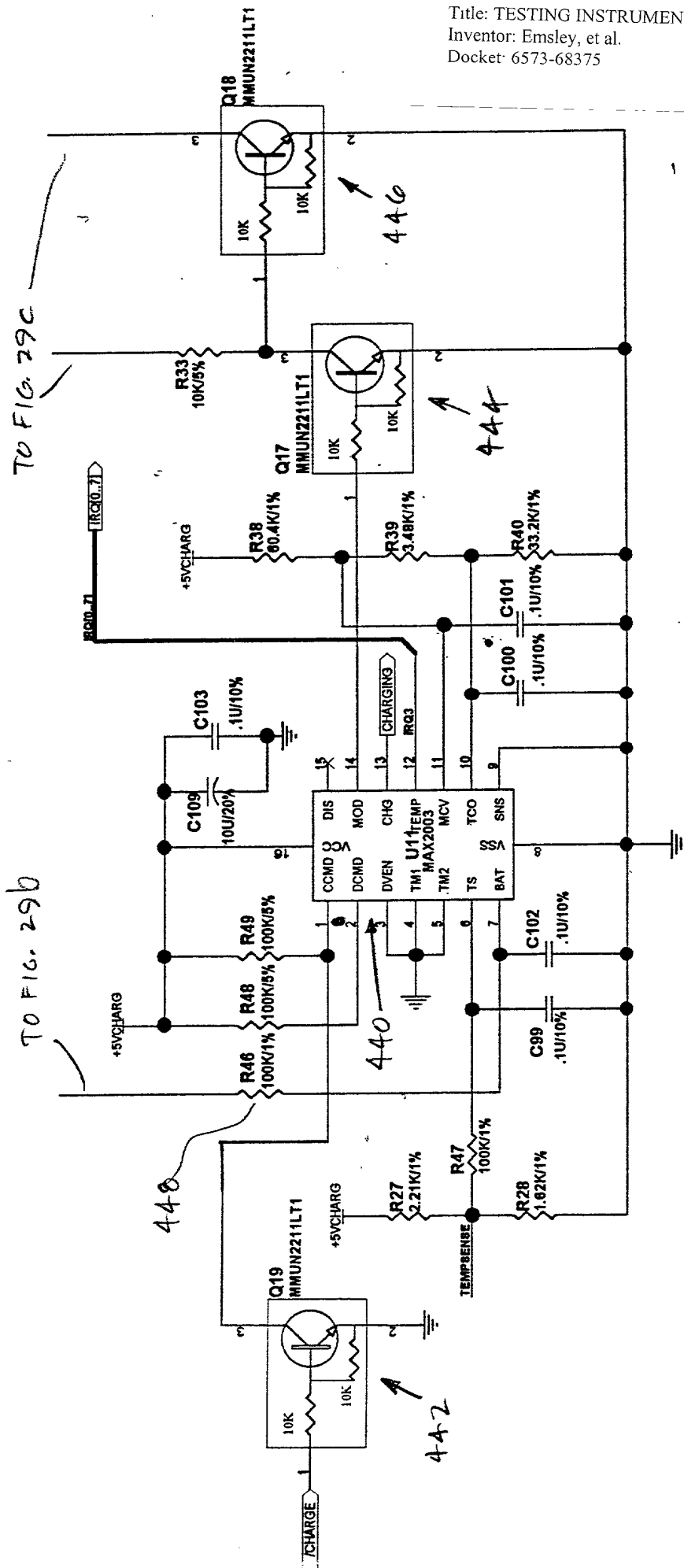


FIG. 29a

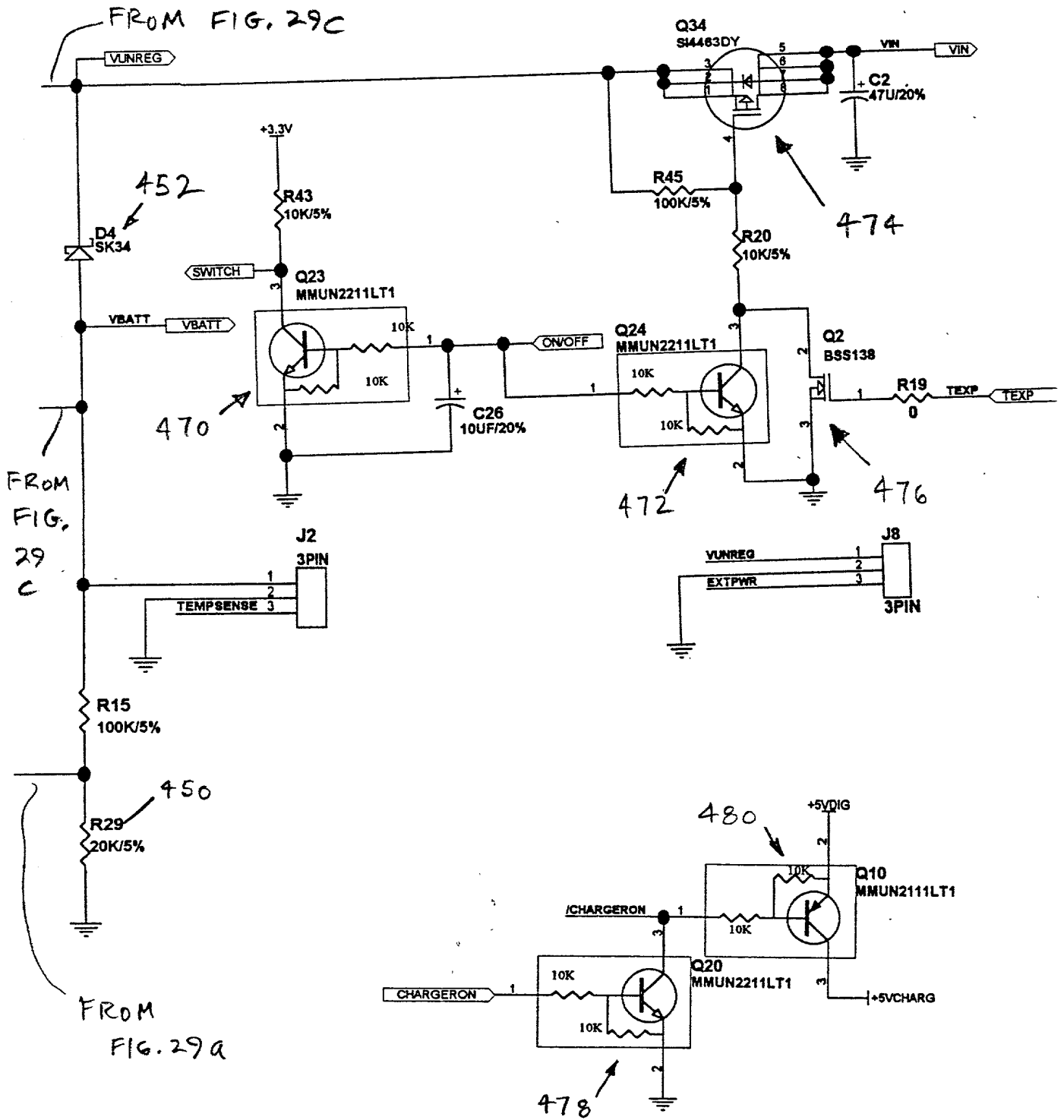
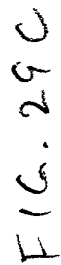


FIG. 29b





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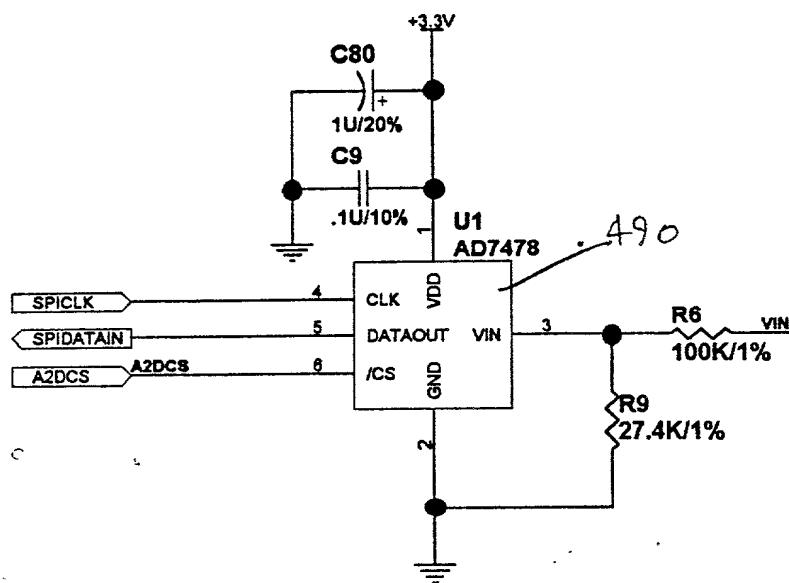


FIG. 31

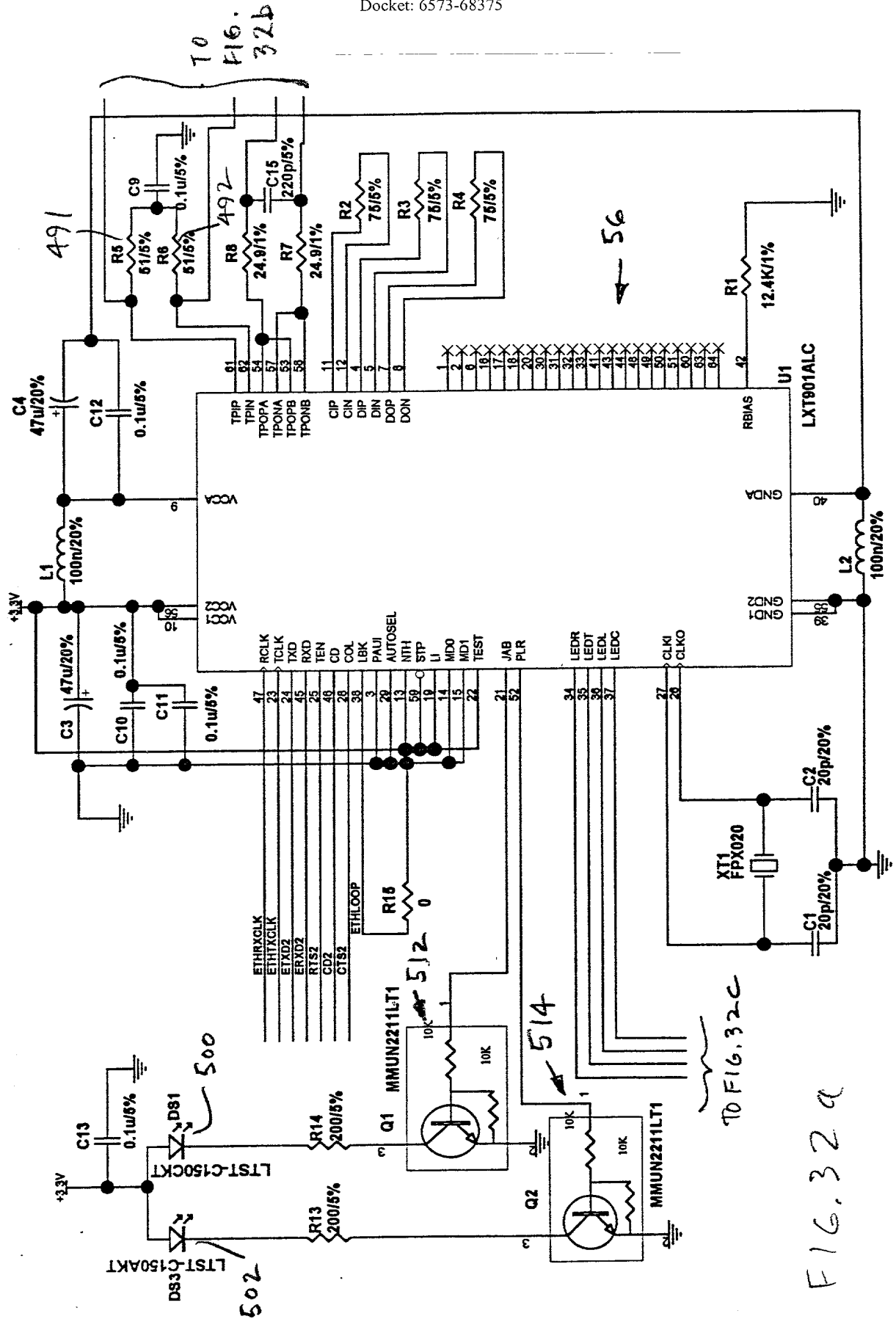


FIG. 32a

FROM FIG. 32a

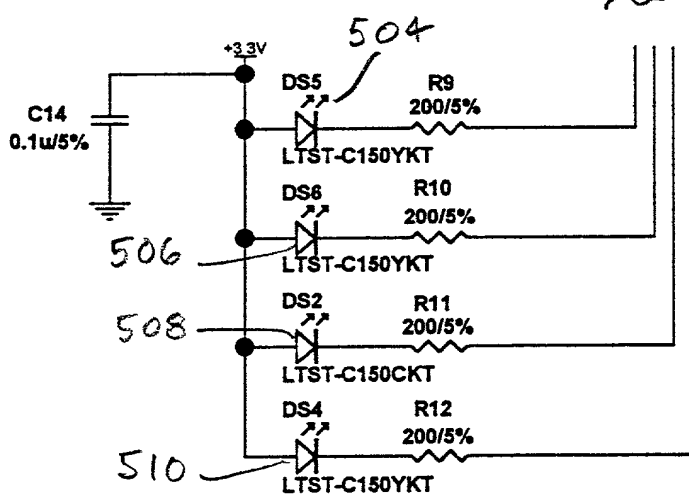


FIG. 32c

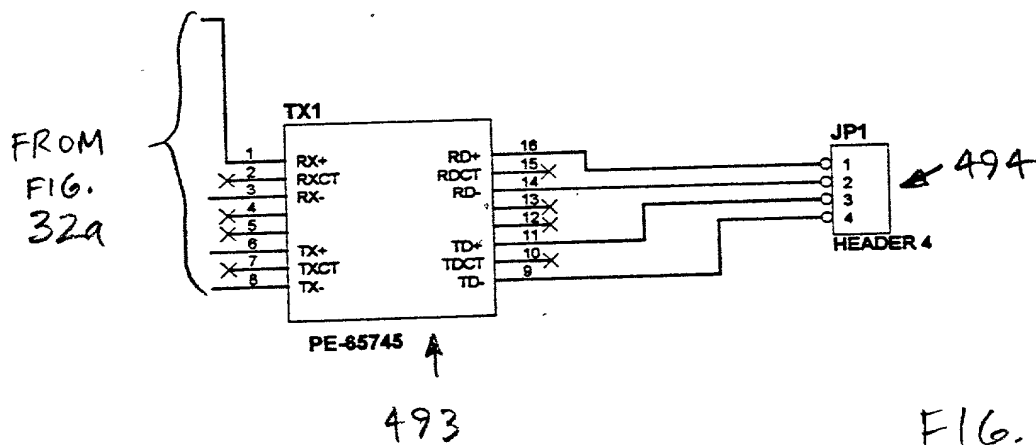


FIG. 32b

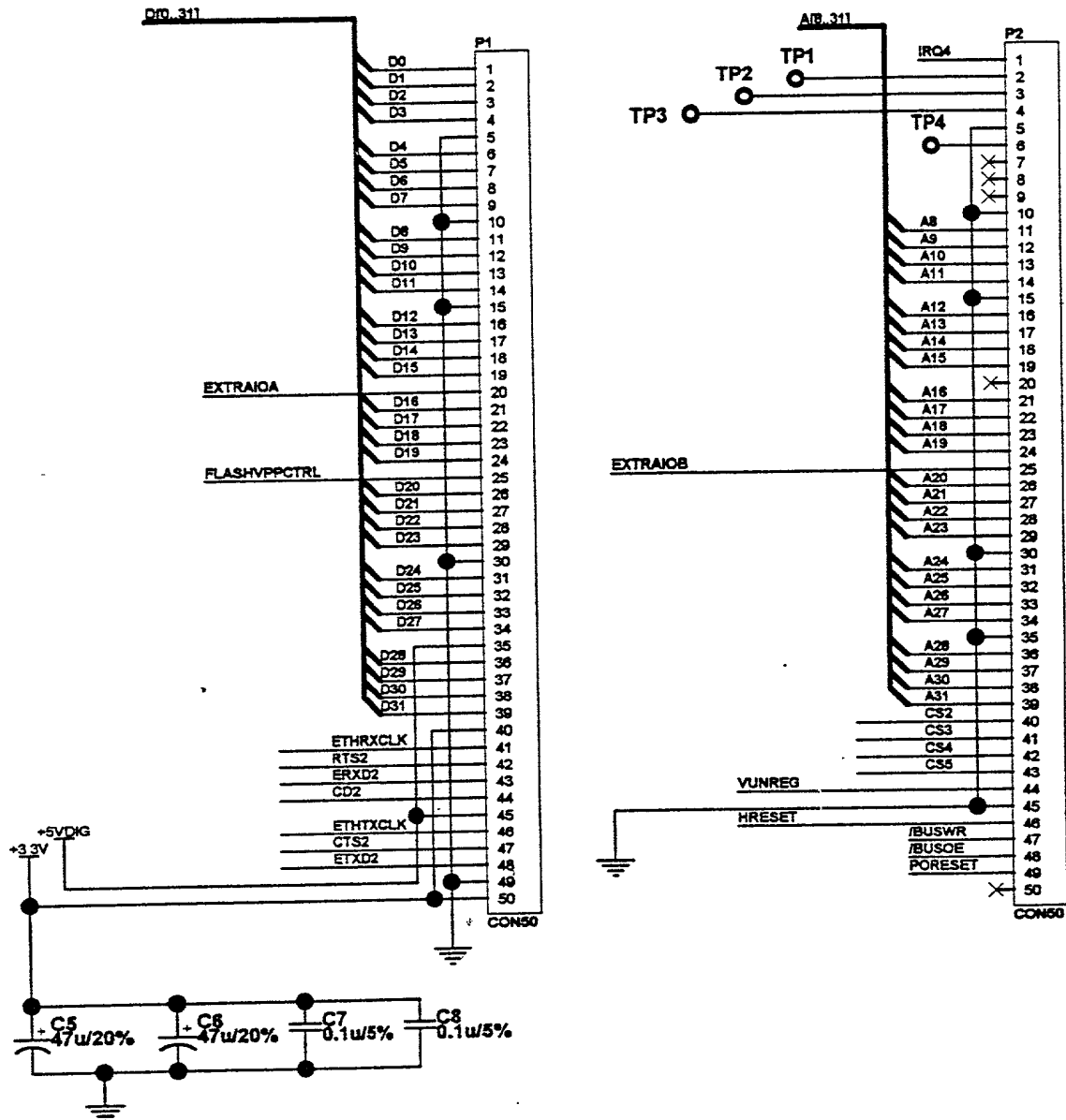


FIG. 33

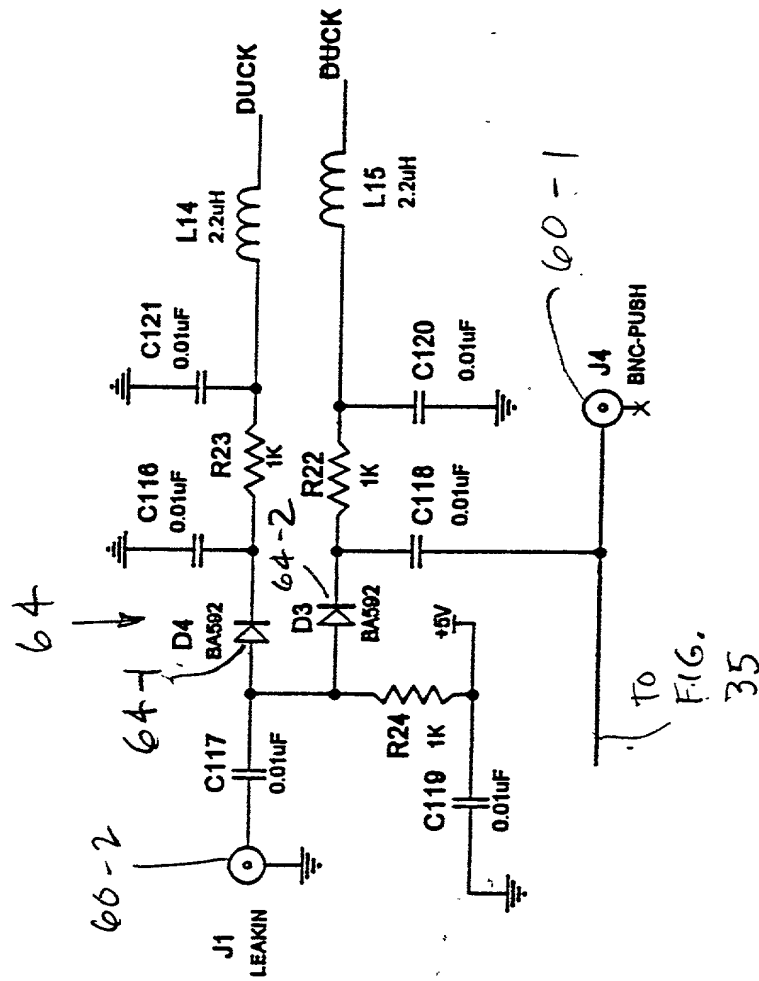
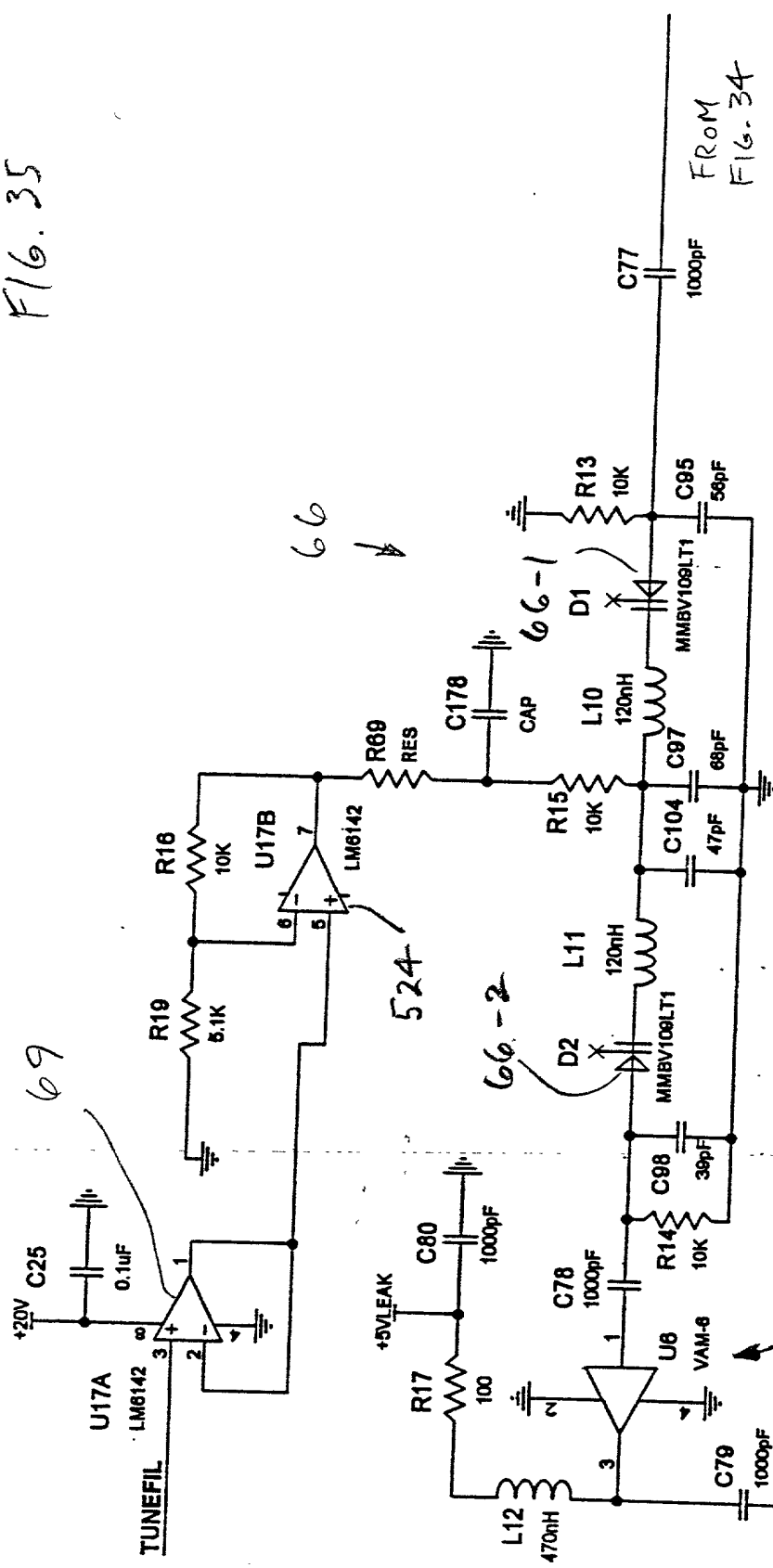


FIG. 34

FIG. 35



FROM
FIG. 34

TO
FIG. 36

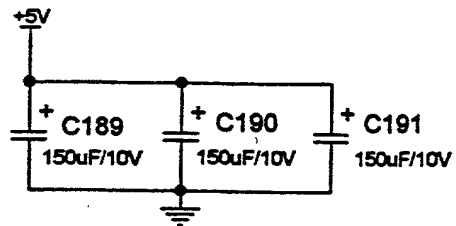
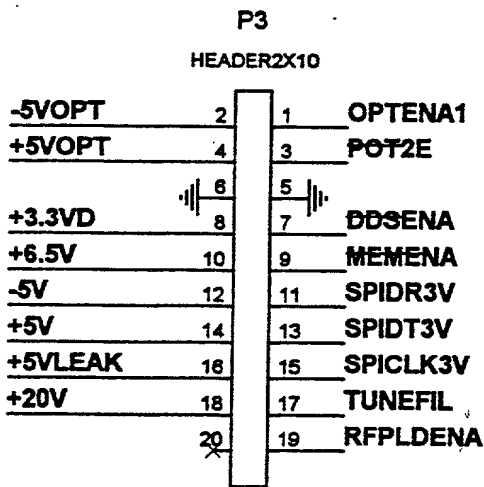
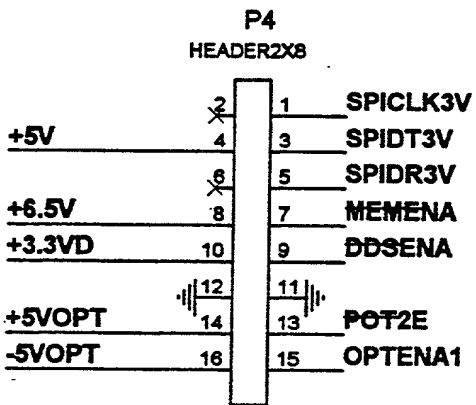
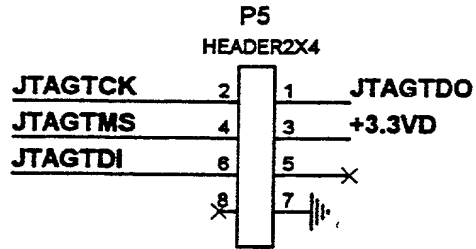


FIG. 35a

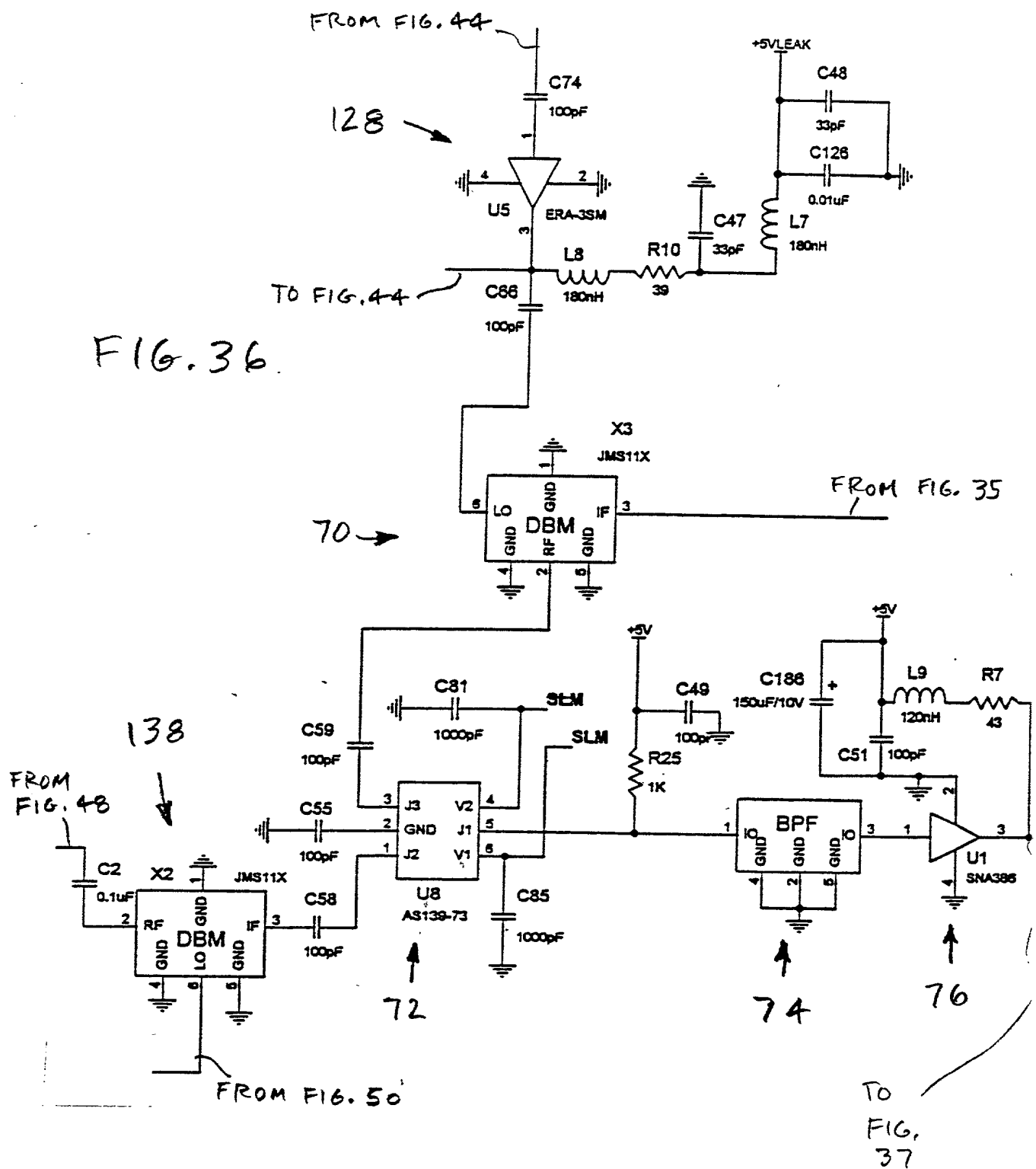
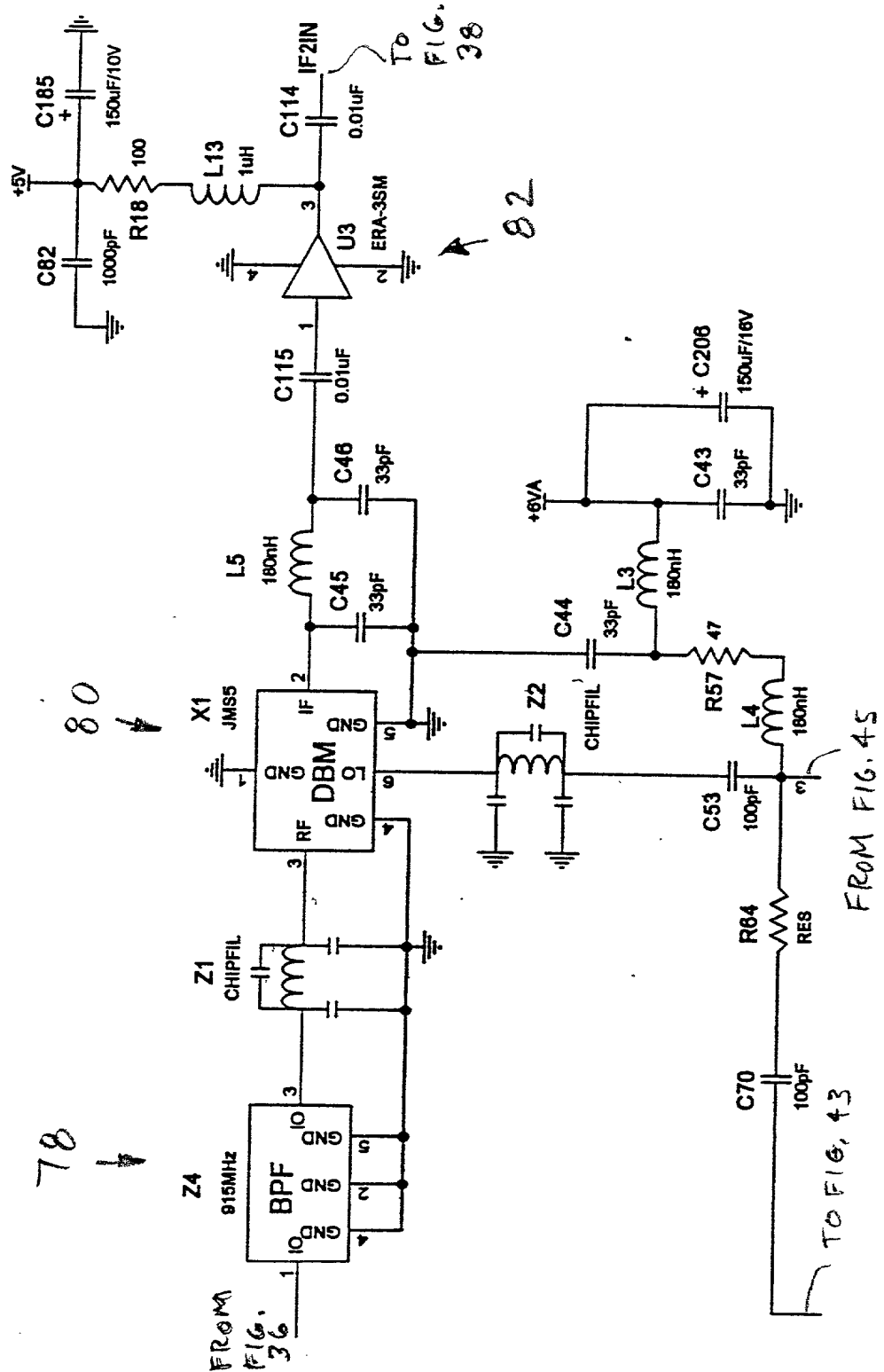


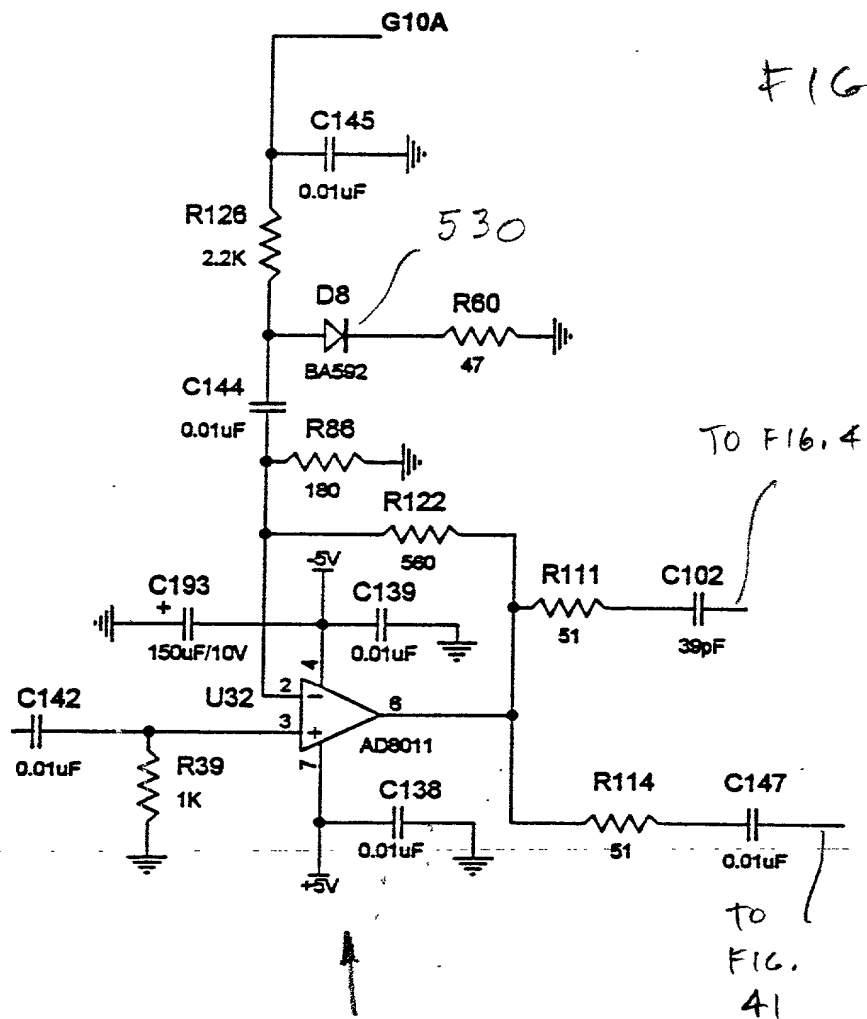
FIG. 37





South at 1000 ft. in the middle of the hill. The hill is about 1000 ft. high and is covered with a dense growth of trees and shrubs. The soil is a deep red loam. The hill is about 1000 ft. high and is covered with a dense growth of trees and shrubs. The soil is a deep red loam. The hill is about 1000 ft. high and is covered with a dense growth of trees and shrubs. The soil is a deep red loam.







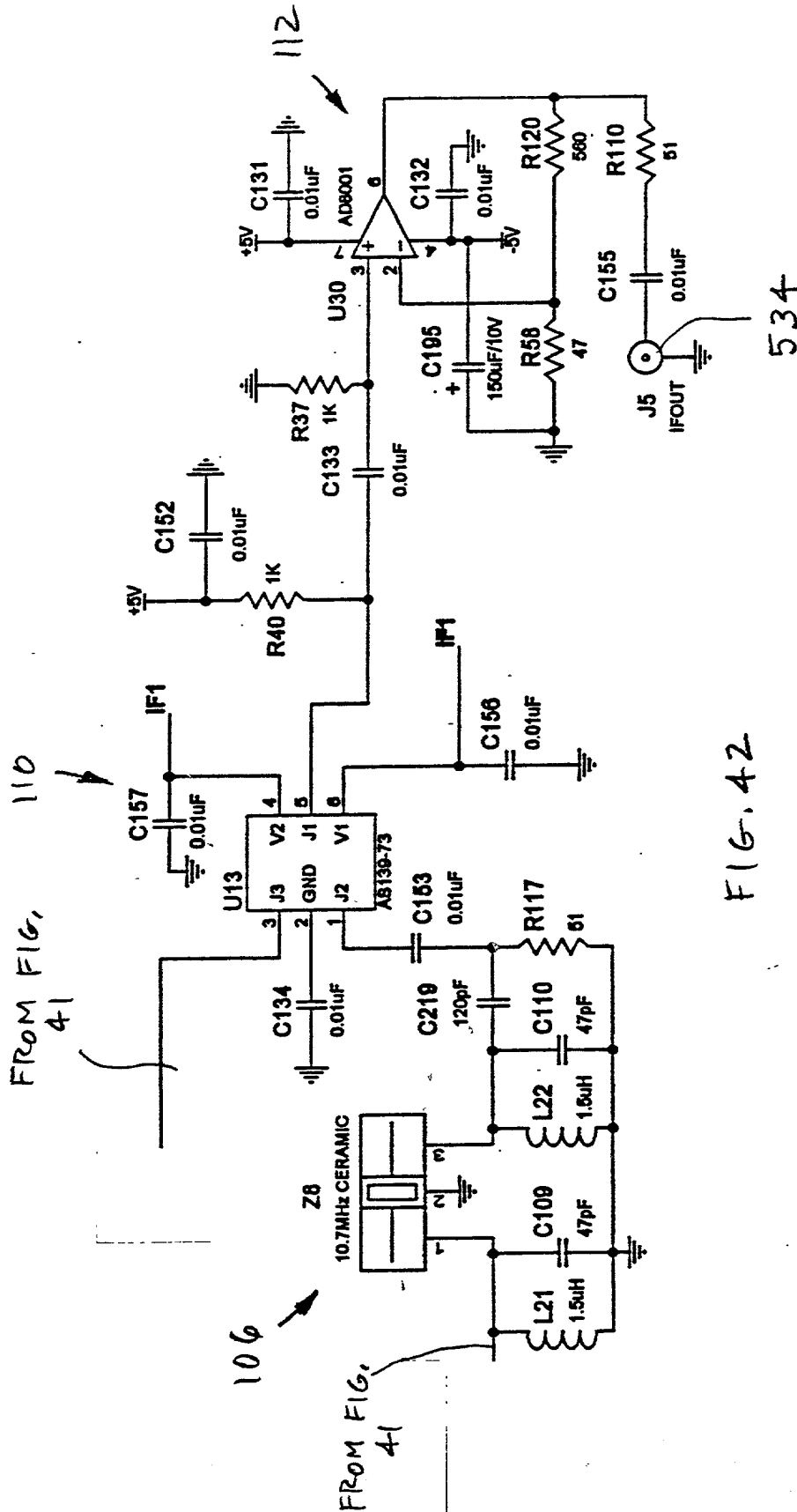
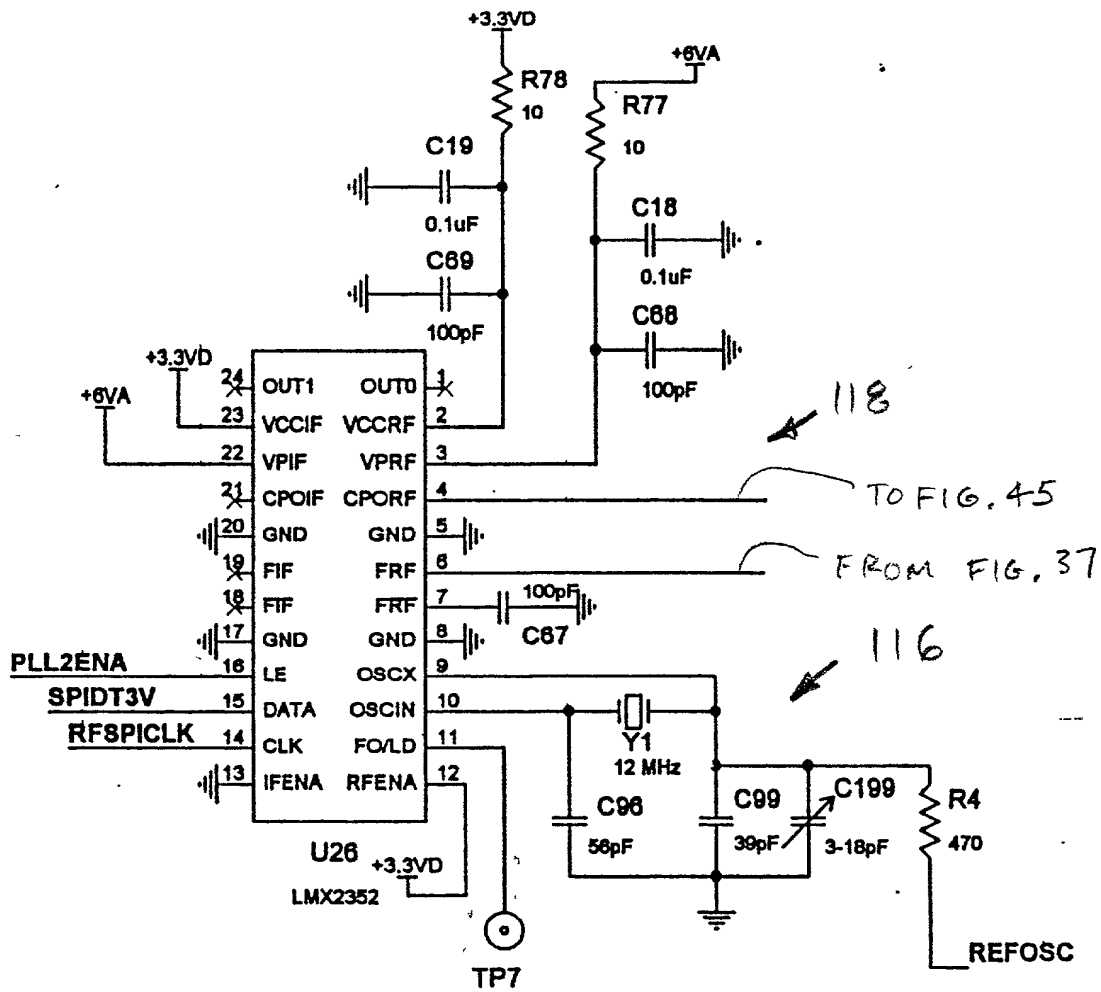


FIG. 43





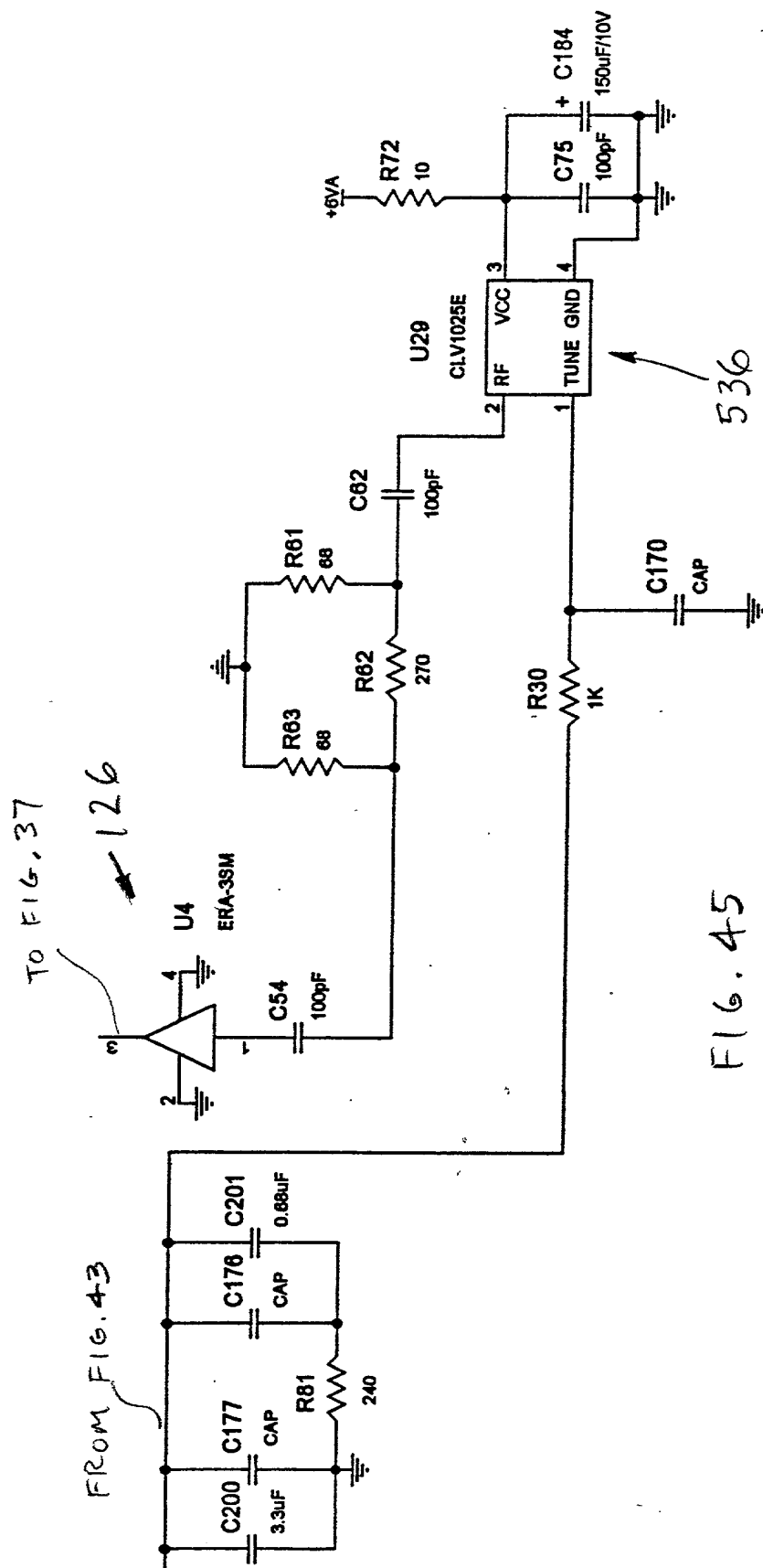
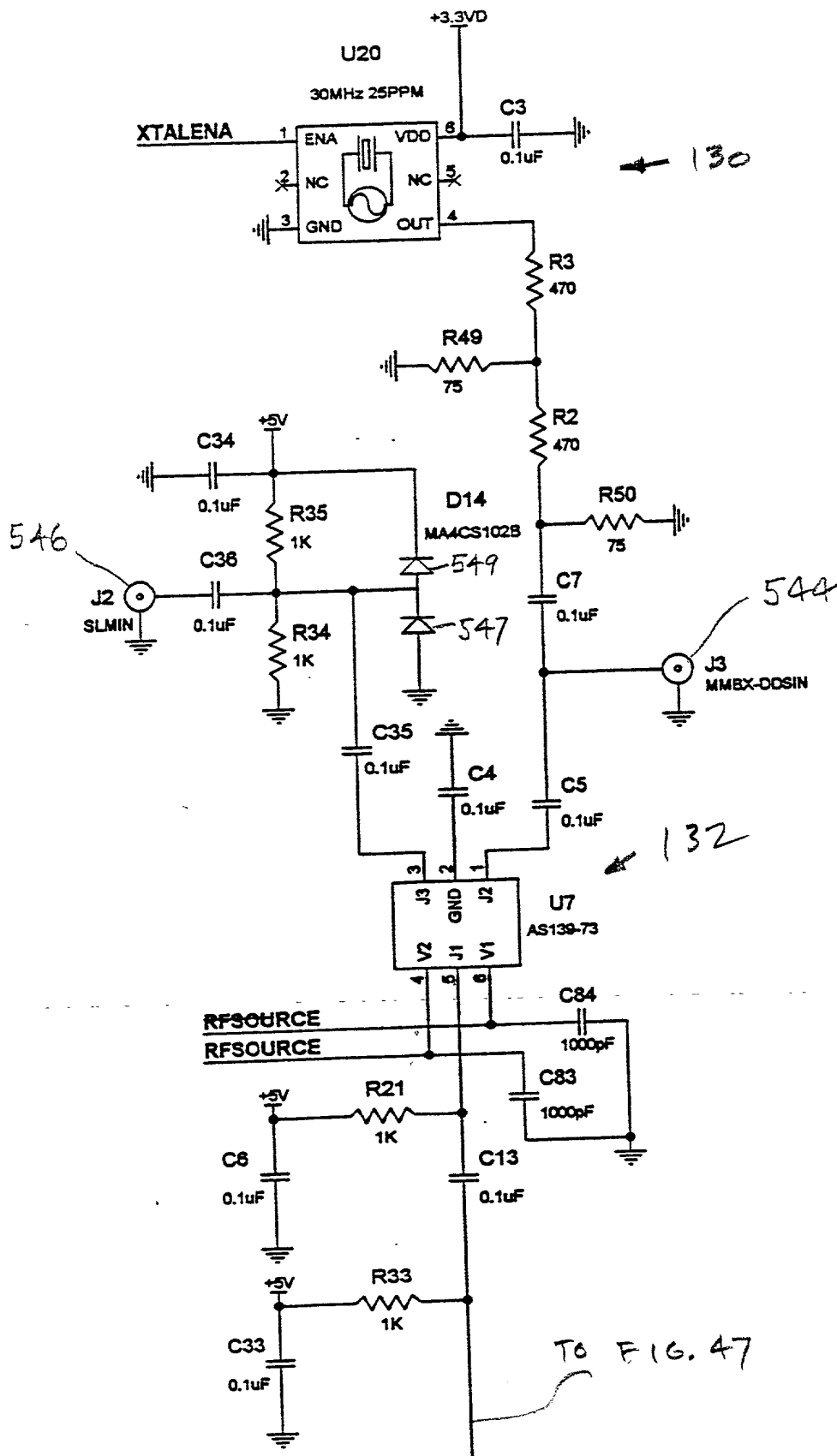
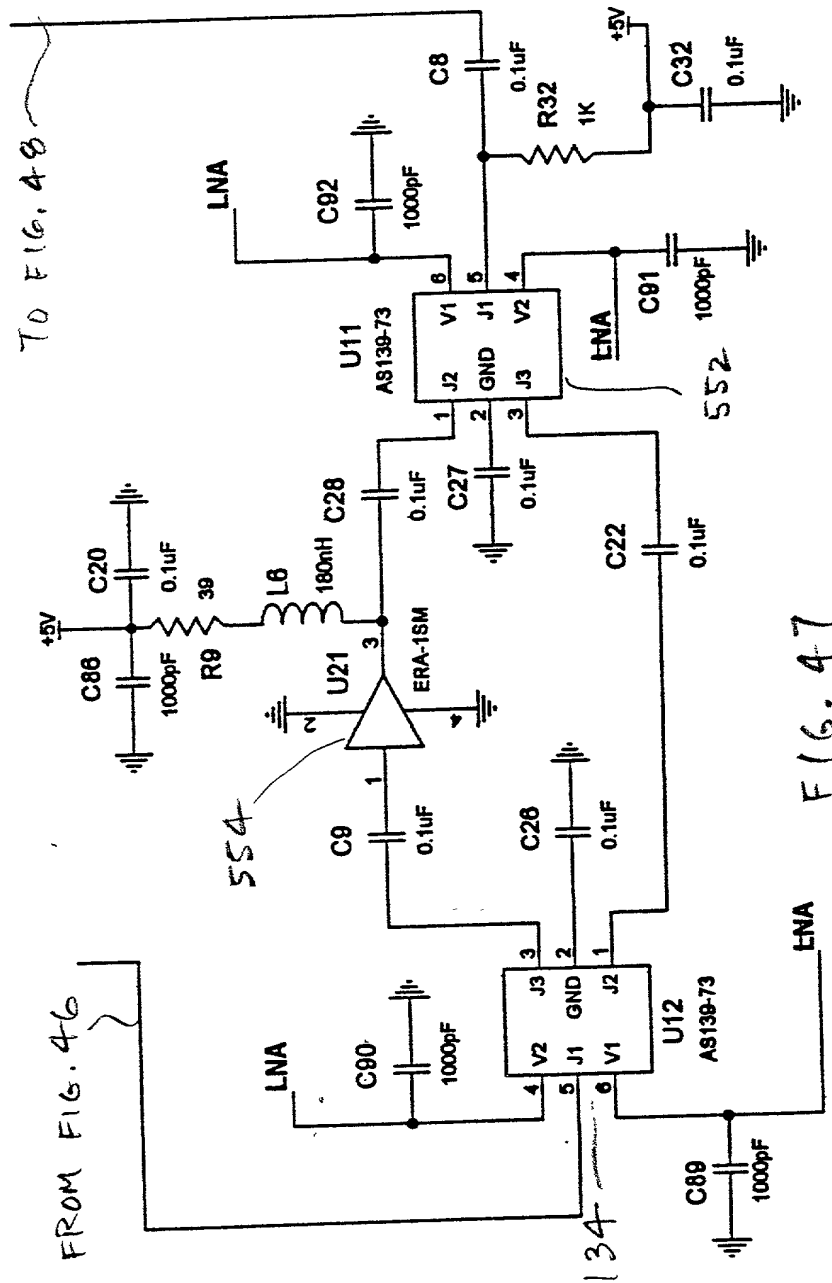


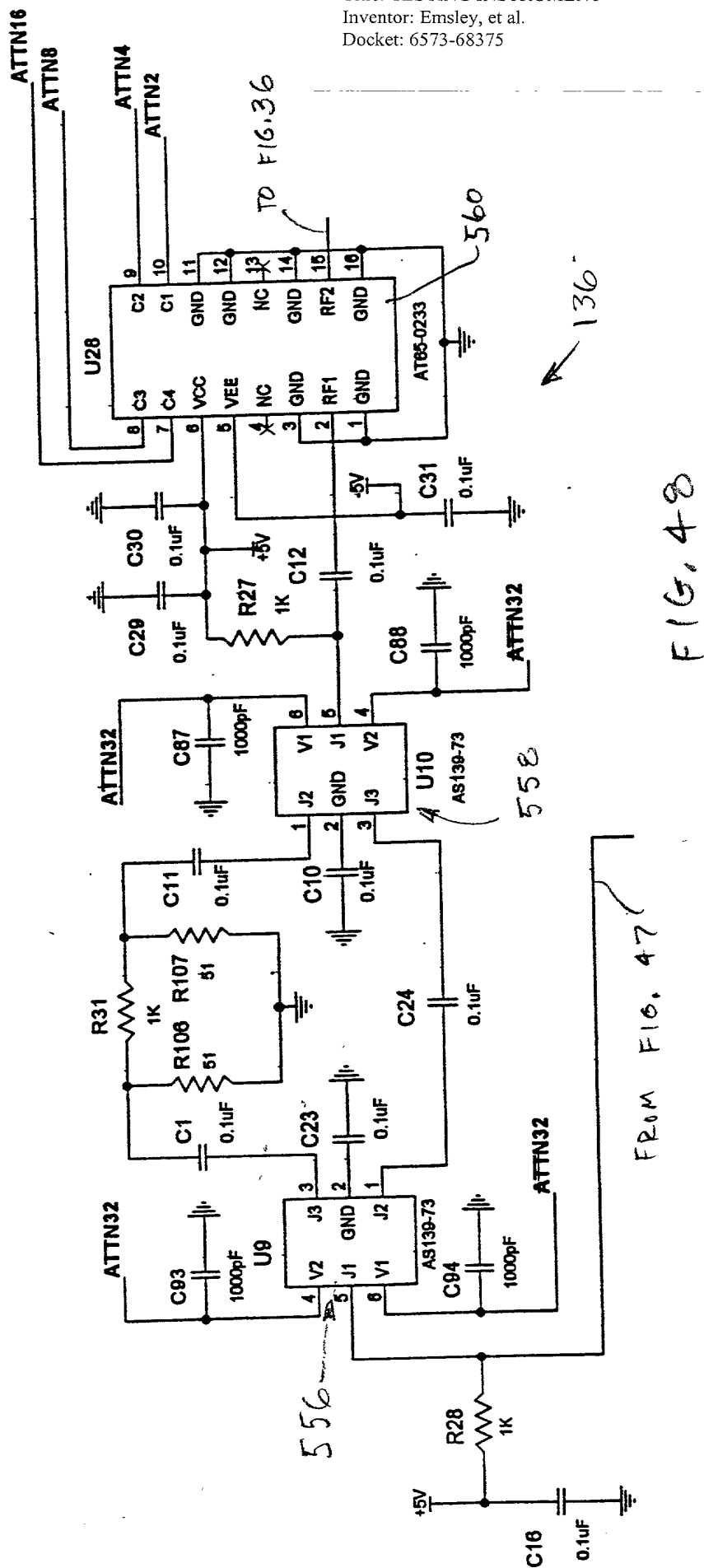
FIG. 46

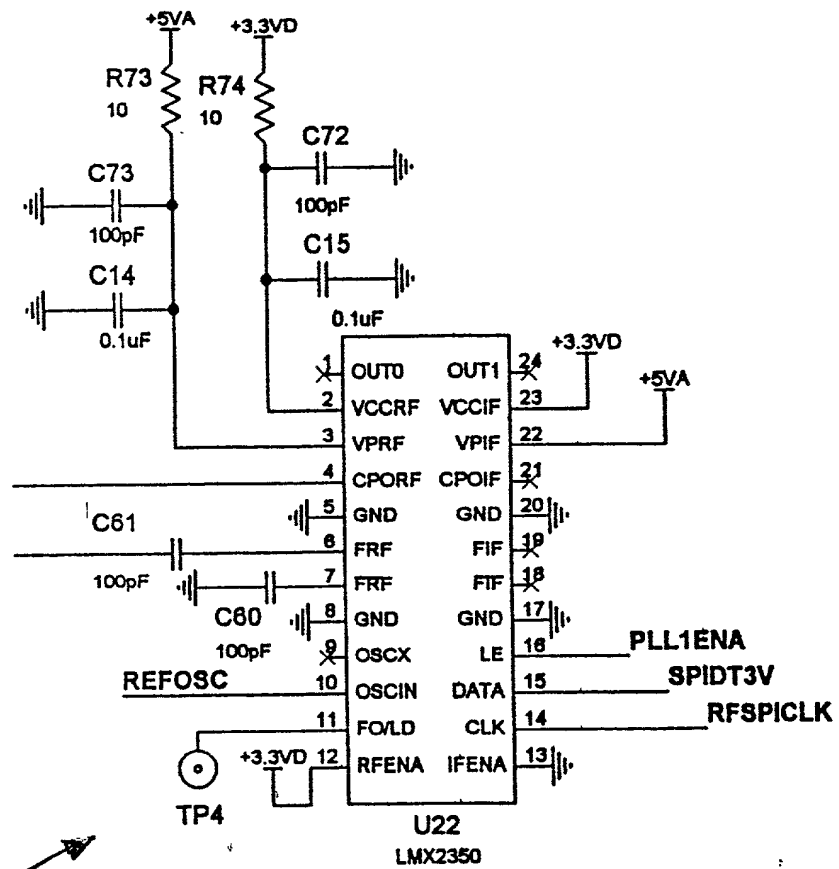




Inventor: Emsley, et al.

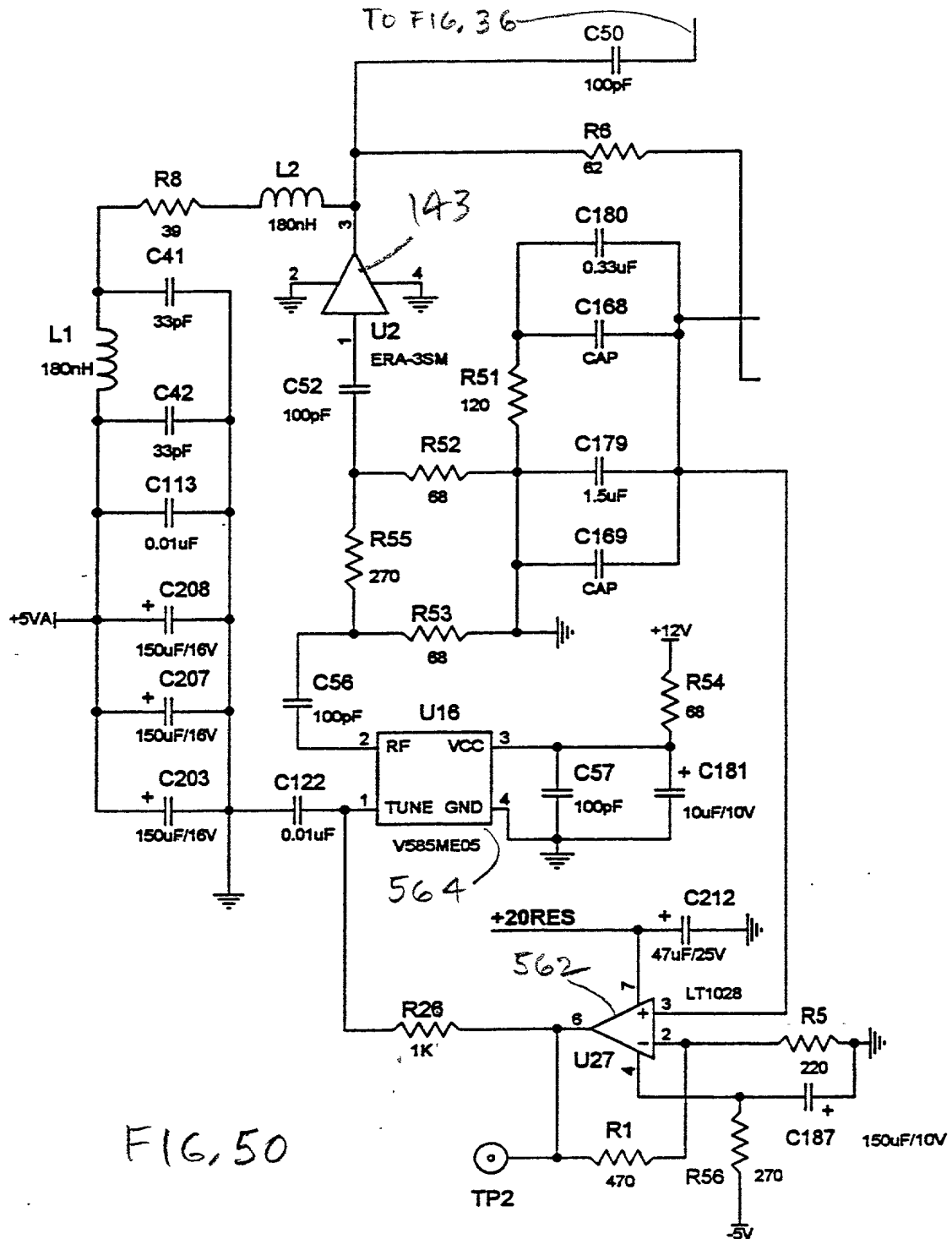
Docket: 6573-68375

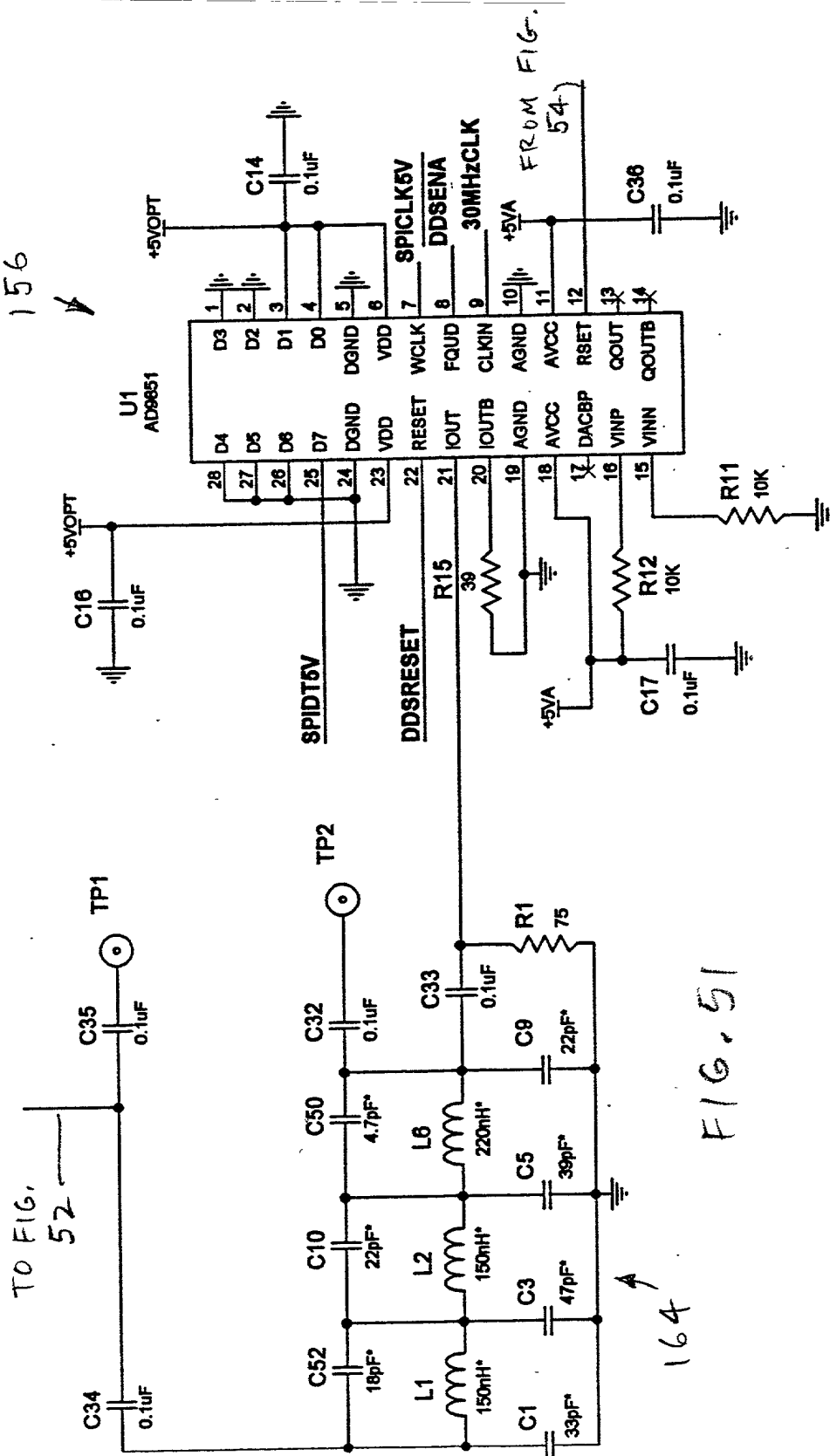




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FIG. 49





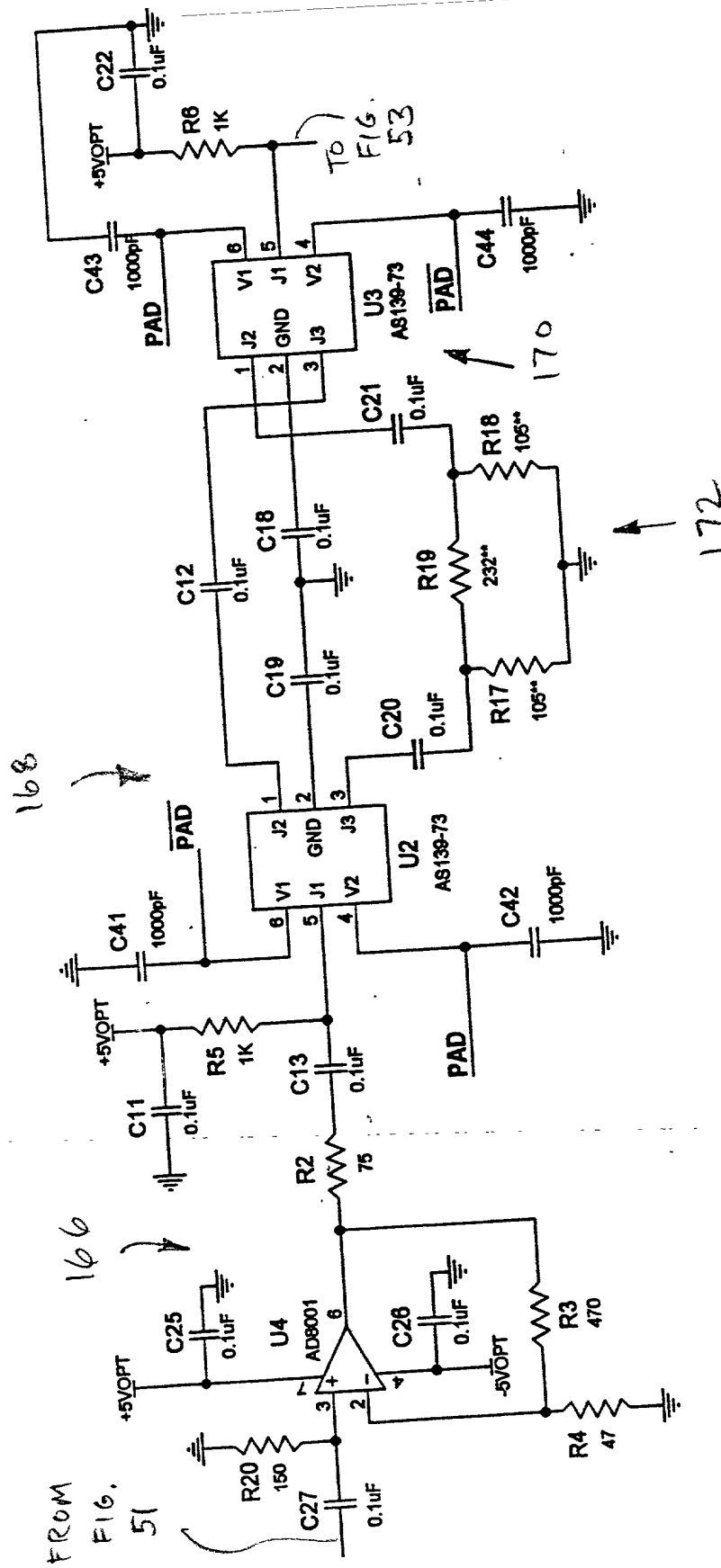


FIG. 52

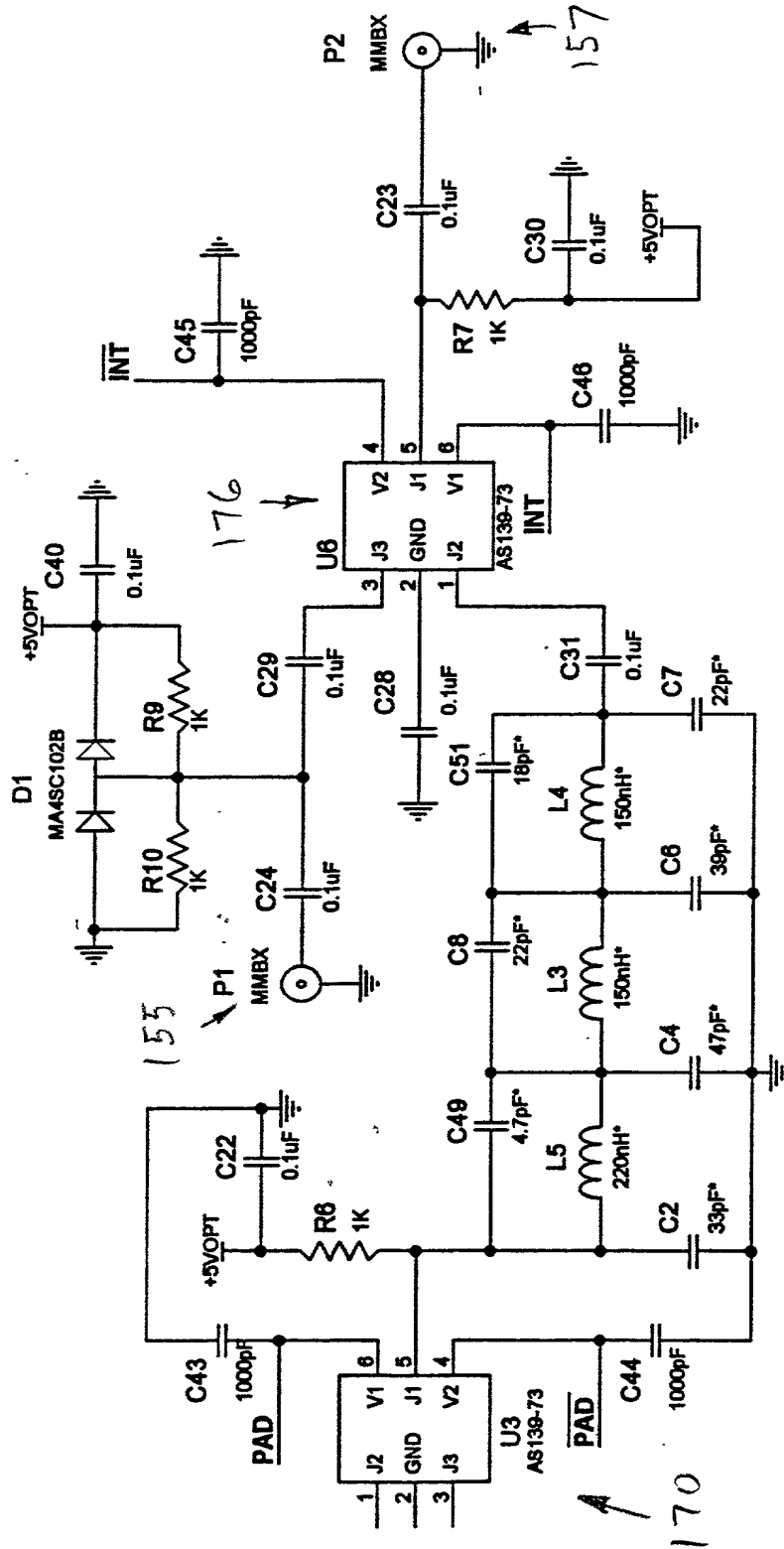
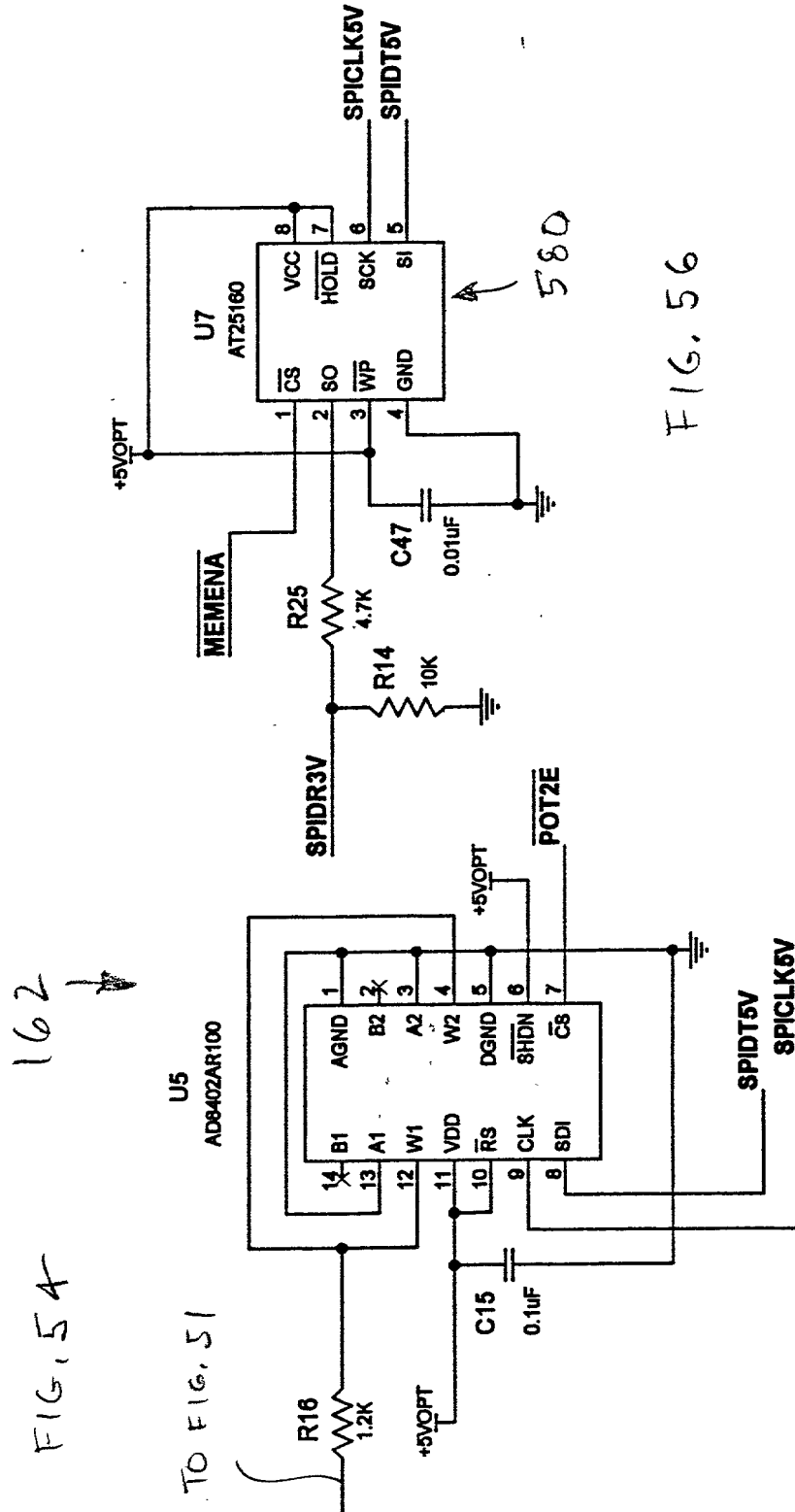


FIG. 53



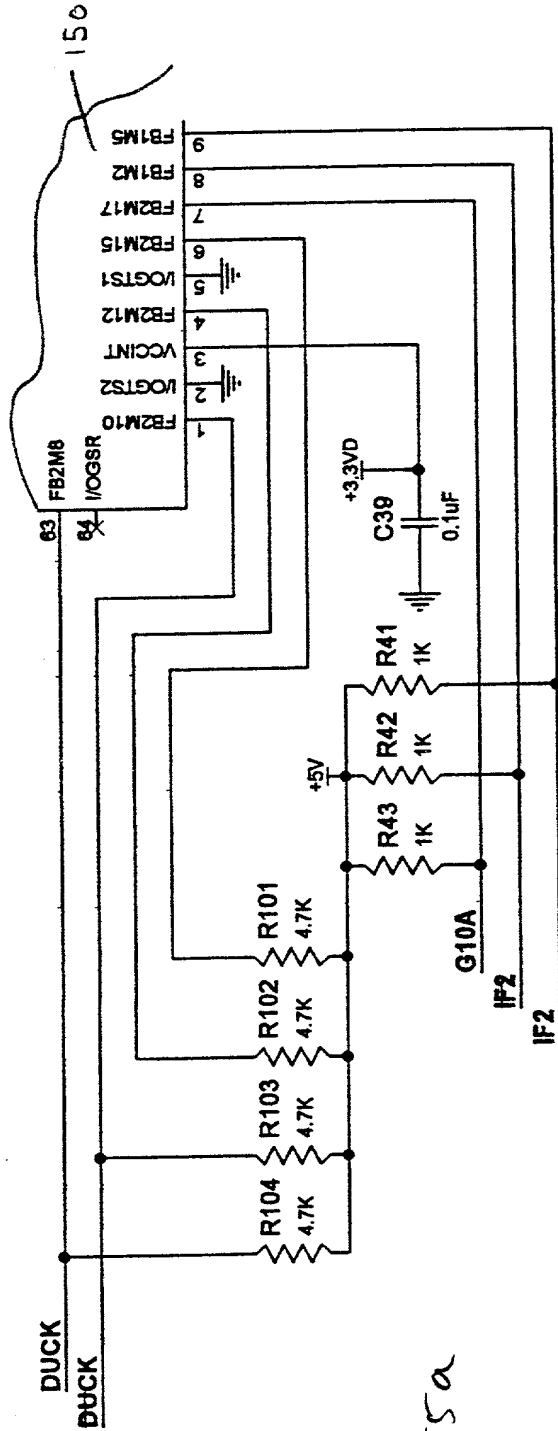


FIG. 55a

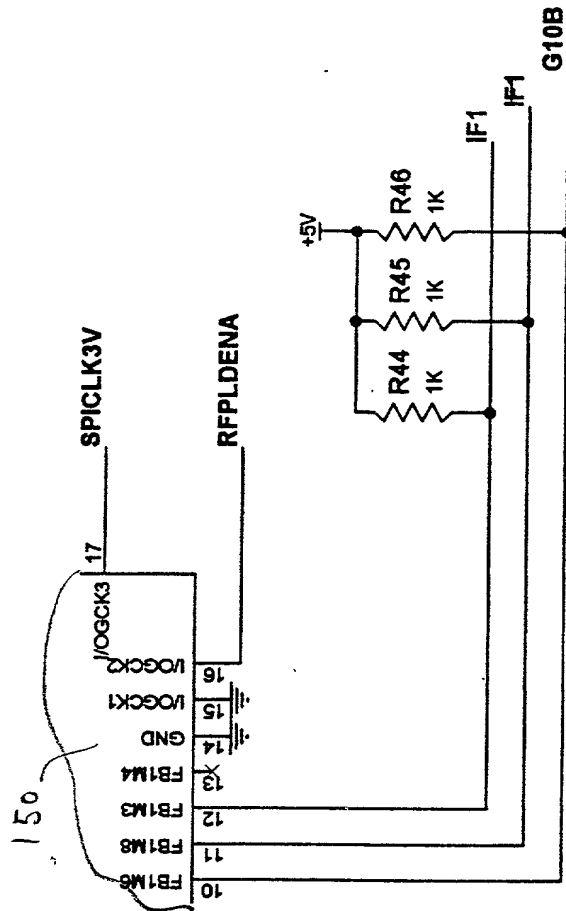
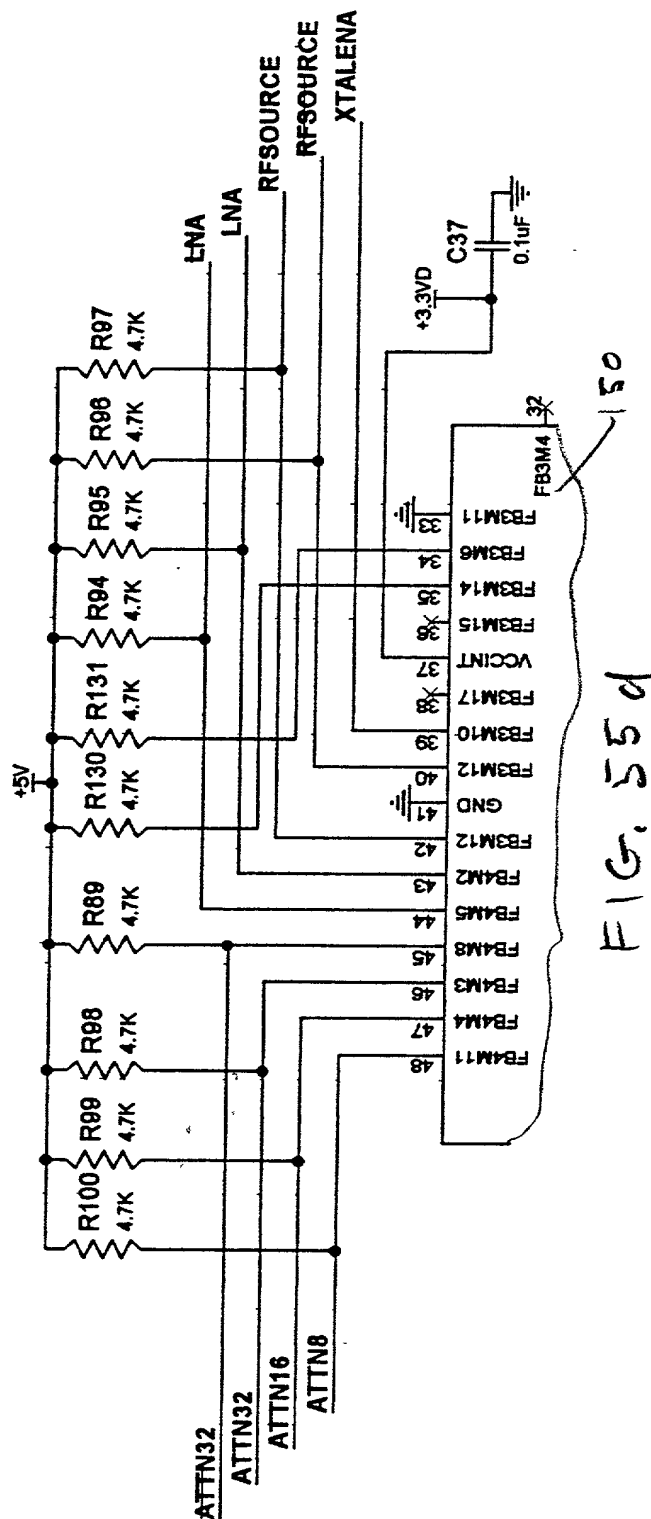


FIG. 55b



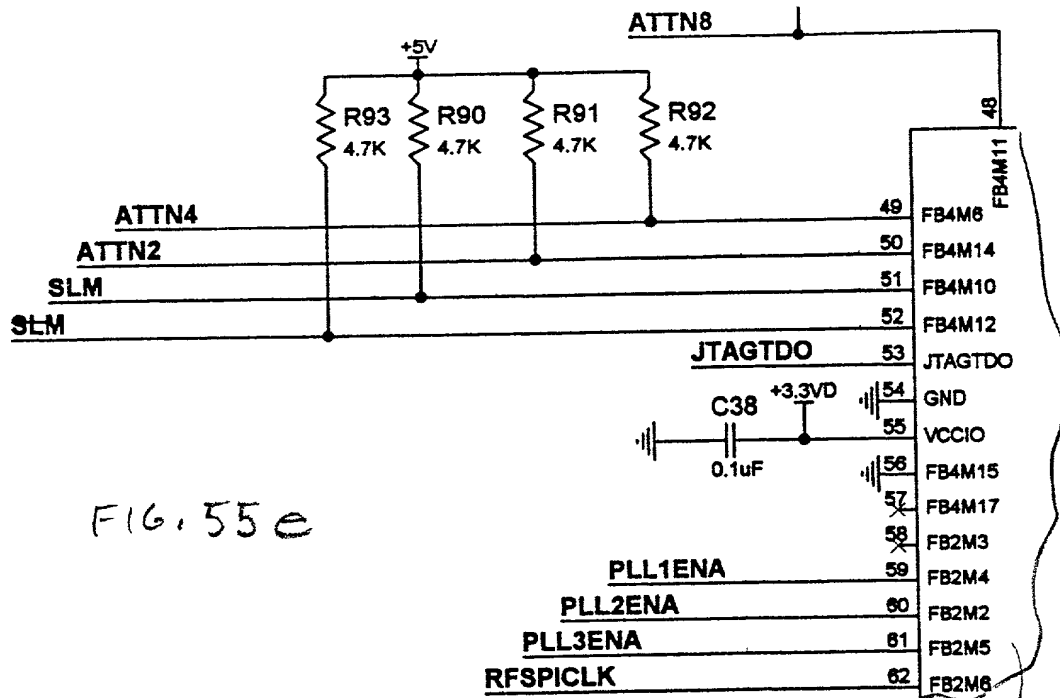


FIG. 55e

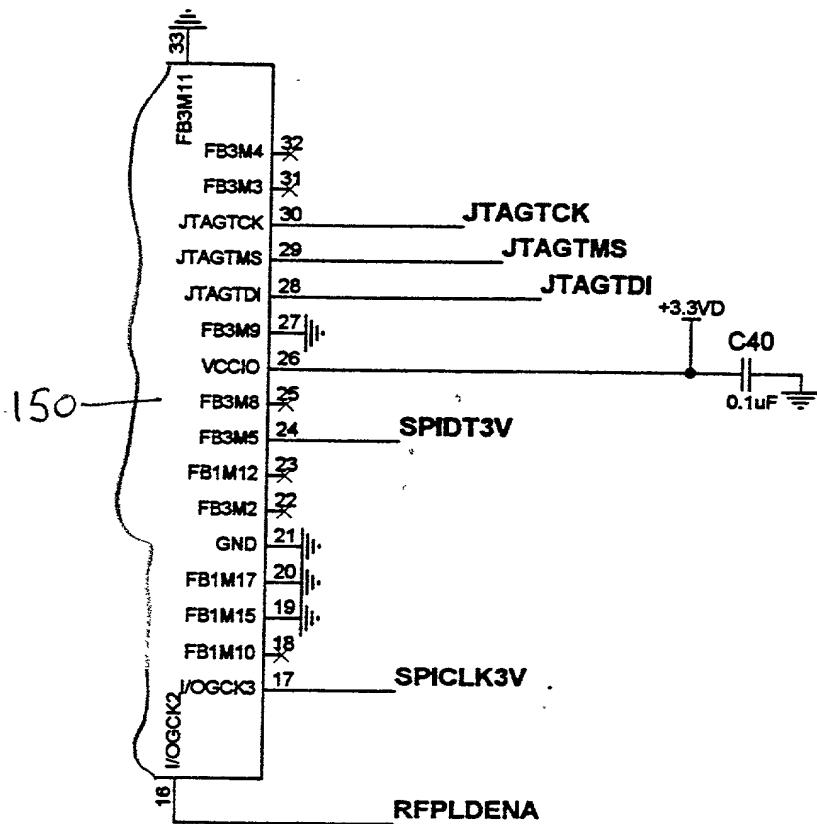
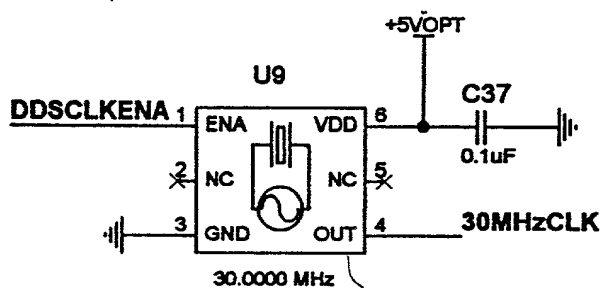
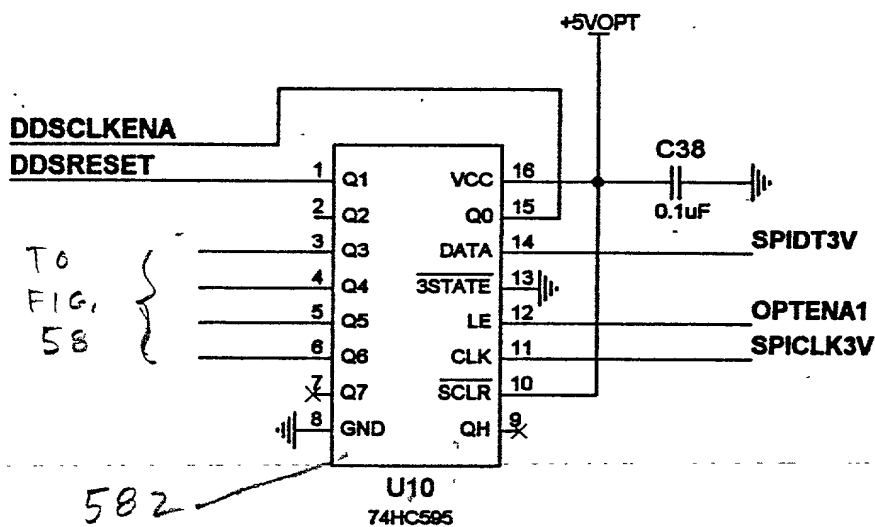


FIG. 55c

FIG. 59



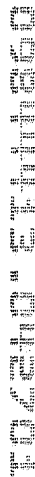
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TO
FIG.
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FIG. 57



NAME	ADDRESS	CITY	STATE	ZIP
Mr. J. H. Smith	123 Main St.	Springfield	Ill.	62761
Mr. W. R. Jones	456 Oak Ave.	Chicago	Ill.	60601
Mr. T. E. Brown	789 Elm St.	Peoria	Ill.	61601
Mr. L. M. White	101 Maple Dr.	Rockford	Ill.	61101
Mr. R. S. Green	202 Pine St.	Decatur	Ill.	62521
Mr. K. P. Black	303 Cedar Ave.	Normal	Ill.	62451
Mr. N. Q. Gray	404 Birch St.	Urbana	Ill.	61501
Mr. H. J. Hall	505 Walnut Ave.	Macomb	Ill.	61451
Mr. G. L. King	606 Spruce St.	Streator	Ill.	61361
Mr. F. I. Scott	707 Ash Ave.	LaSalle	Ill.	61301
Mr. D. K. Walker	808 Hickory St.	Marion	Ill.	61751
Mr. C. N. Young	909 Sycamore Ave.	Shelburne	Ill.	61351
Mr. B. O. Allen	1010 Poplar St.	Waukegan	Ill.	60081
Mr. A. P. Wright	1111 Chestnut Ave.	Winnetka	Ill.	60091
Mr. M. R. Hill	1212 Locust St.	Wilmette	Ill.	60091
Mr. J. S. Adams	1313 Walnut Ave.	Northbrook	Ill.	60061
Mr. L. T. Baker	1414 Spruce St.	Skokie	Ill.	60071
Mr. P. Q. Carter	1515 Ash Ave.	Des Plaines	Ill.	60011
Mr. R. S. Evans	1616 Hickory St.	Oak Park	Ill.	60451
Mr. T. U. Fisher	1717 Sycamore Ave.	Itasca	Ill.	60141
Mr. V. W. Gibson	1818 Poplar St.	Winthrop Harbor	Ill.	60091
Mr. X. Y. Howell	1919 Chestnut Ave.	Harvey	Ill.	60421
Mr. Z. A. Ingram	2020 Locust St.	Chicago	Ill.	60601
Mr. B. C. Jackson	2121 Walnut Ave.	Chicago	Ill.	60601
Mr. D. E. Keller	2222 Spruce St.	Chicago	Ill.	60601
Mr. F. G. Lester	2323 Ash Ave.	Chicago	Ill.	60601
Mr. H. I. Martin	2424 Hickory St.	Chicago	Ill.	60601
Mr. J. K. Nash	2525 Sycamore Ave.	Chicago	Ill.	60601
Mr. L. M. Olsen	2626 Poplar St.	Chicago	Ill.	60601
Mr. N. P. Parker	2727 Chestnut Ave.	Chicago	Ill.	60601
Mr. O. Q. Roberts	2828 Locust St.	Chicago	Ill.	60601
Mr. P. R. Scott	2929 Walnut Ave.	Chicago	Ill.	60601
Mr. Q. S. Taylor	3030 Spruce St.	Chicago	Ill.	60601
Mr. R. T. Vance	3131 Ash Ave.	Chicago	Ill.	60601
Mr. S. U. Webb	3232 Hickory St.	Chicago	Ill.	60601
Mr. T. V. White	3333 Sycamore Ave.	Chicago	Ill.	60601
Mr. U. W. Young	3434 Poplar St.	Chicago	Ill.	60601
Mr. V. X. Zeller	3535 Chestnut Ave.	Chicago	Ill.	60601
Mr. W. Y. Adams	3636 Locust St.	Chicago	Ill.	60601
Mr. X. Z. Baker	3737 Walnut Ave.	Chicago	Ill.	60601
Mr. Y. A. Carter	3838 Spruce St.	Chicago	Ill.	60601
Mr. Z. B. Evans	3939 Ash Ave.	Chicago	Ill.	60601
Mr. A. C. Fisher	4040 Hickory St.	Chicago	Ill.	60601
Mr. B. D. Gibson	4141 Sycamore Ave.	Chicago	Ill.	60601
Mr. C. E. Howell	4242 Poplar St.	Chicago	Ill.	60601
Mr. D. F. Ingram	4343 Chestnut Ave.	Chicago	Ill.	60601
Mr. E. G. Jackson	4444 Locust St.	Chicago	Ill.	60601
Mr. F. H. Keller	4545 Walnut Ave.	Chicago	Ill.	60601
Mr. G. I. Lester	4646 Spruce St.	Chicago	Ill.	60601
Mr. H. J. Martin	4747 Ash Ave.	Chicago	Ill.	60601
Mr. I. K. Nash	4848 Hickory St.	Chicago	Ill.	60601
Mr. J. L. Olsen	4949 Sycamore Ave.	Chicago	Ill.	60601
Mr. K. M. Parker	5050 Poplar St.	Chicago	Ill.	60601
Mr. L. N. Roberts	5151 Chestnut Ave.	Chicago	Ill.	60601
Mr. M. O. Scott	5252 Locust St.	Chicago	Ill.	60601
Mr. N. P. Taylor	5353 Walnut Ave.	Chicago	Ill.	60601
Mr. O. Q. Vance	5454 Spruce St.	Chicago	Ill.	60601
Mr. P. R. Webb	5555 Ash Ave.	Chicago	Ill.	60601
Mr. Q. S. White	5656 Hickory St.	Chicago	Ill.	60601
Mr. R. T. Young	5757 Sycamore Ave.	Chicago	Ill.	60601
Mr. S. U. Zeller	5858 Poplar St.	Chicago	Ill.	60601
Mr. T. V. Adams	5959 Chestnut Ave.	Chicago	Ill.	60601
Mr. U. W. Baker	6060 Locust St.	Chicago	Ill.	60601
Mr. V. X. Carter	6161 Walnut Ave.	Chicago	Ill.	60601
Mr. W. Y. Evans	6262 Spruce St.	Chicago	Ill.	60601
Mr. X. Z. Fisher	6363 Ash Ave.	Chicago	Ill.	60601
Mr. Y. A. Gibson	6464 Hickory St.	Chicago	Ill.	60601
Mr. Z. B. Howell	6565 Sycamore Ave.	Chicago	Ill.	60601
Mr. A. C. Ingram	6666 Poplar St.	Chicago	Ill.	60601
Mr. B. D. Jackson	6767 Chestnut Ave.			



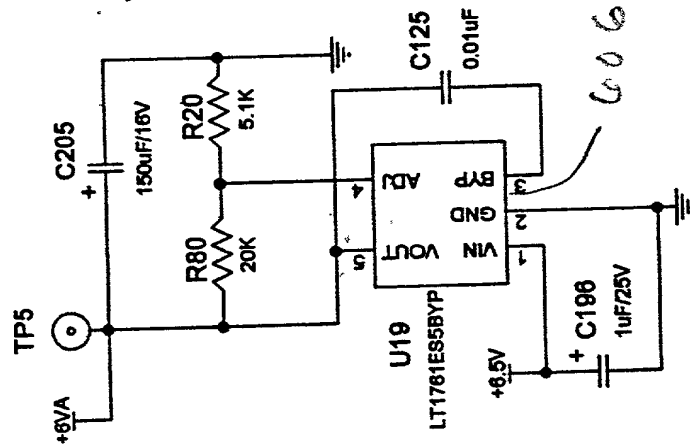
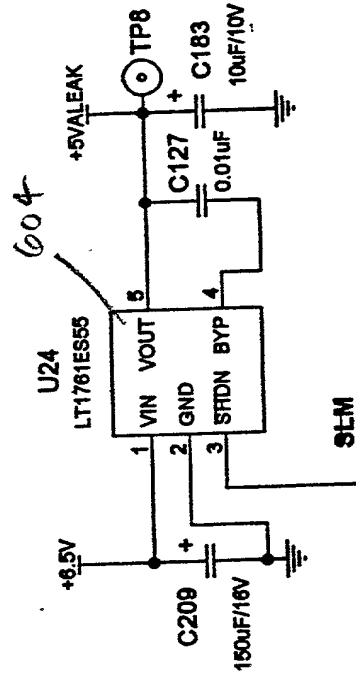
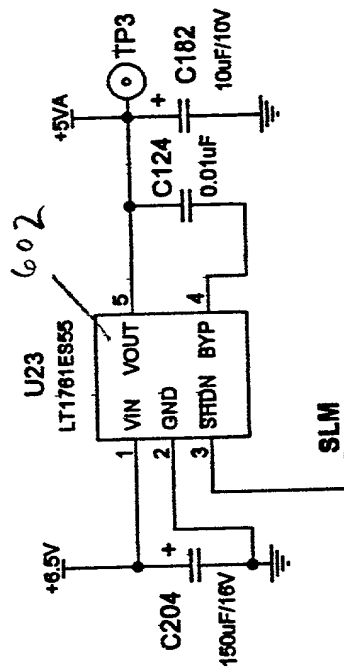


FIG. 65

FIG. 64

FIG. 63

Title: TESTING INSTRUMENT
Inventor: Emsley, et al.
Docket: 6573-68375

